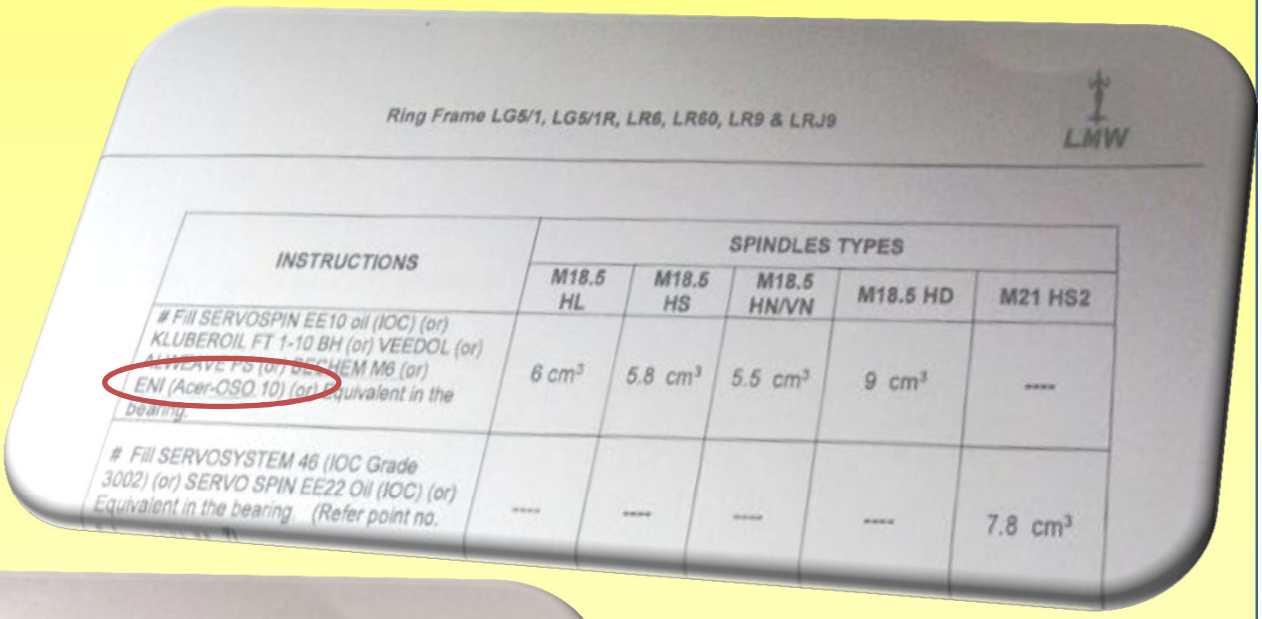
Spindle Oil

ACER SO 10 EE

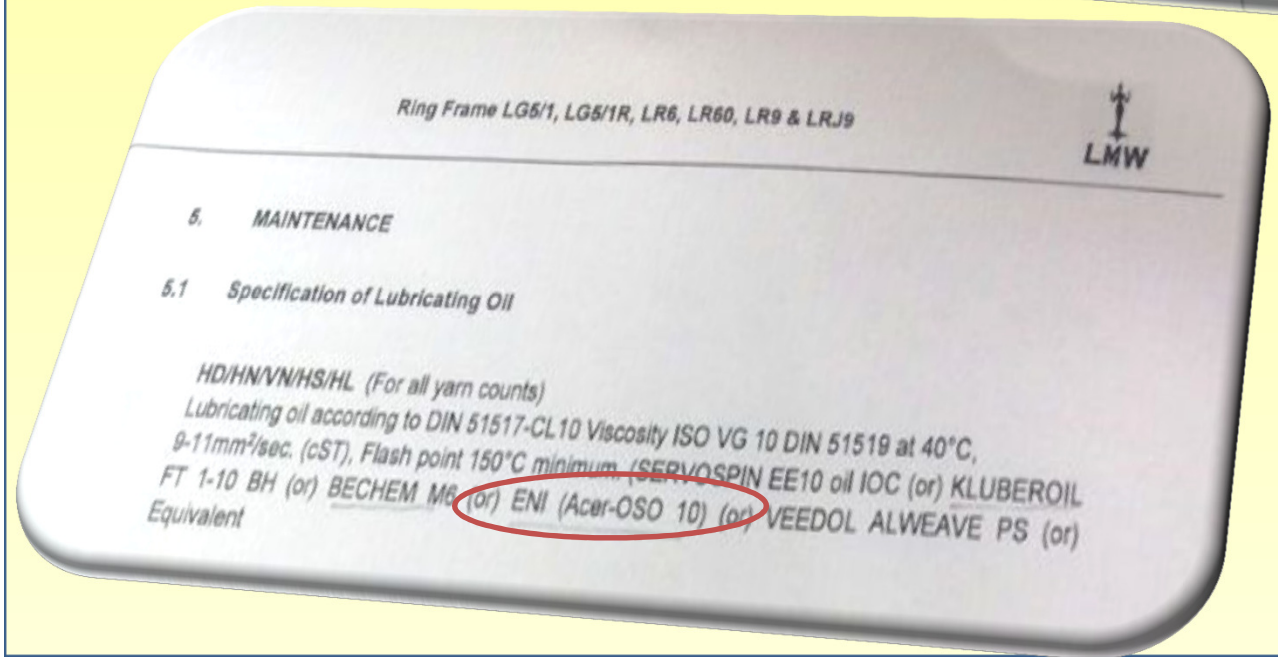
ENI Spindle oil Approved by LMW



Ring Frame LG5/1, LG5/1R, LR6, LR60, LR9 & LRJ9

LMW

INSTRUCTIONS	SPINDLES TYPES				
	M18.5 HL	M18.5 HS	M18.5 HN/VN	M18.5 HD	M21 HS2
# Fill SERVOSPIN EE10 oil (IOC) (or) KLUBEROIL FT 1-10 BH (or) VEEDOL (or) ALWEAVE PS (or) BECHEM M6 (or) ENI (Acer-OSO 10) (or) Equivalent in the bearing.	6 cm³	5.8 cm³	5.5 cm³	9 cm³	----
# Fill SERVOSYSTEM 46 (IOC Grade 3002) (or) SERVO SPIN EE22 Oil (IOC) (or) Equivalent in the bearing. (Refer point no.	----	----	----	----	7.8 cm³



Ring Frame LG5/1, LG5/1R, LR6, LR60, LR9 & LRJ9

LMW

5. MAINTENANCE

5.1 Specification of Lubricating Oil

HD/HN/VN/HS/HL (For all yarn counts)
Lubricating oil according to DIN 51517-CL10 Viscosity ISO VG 10 DIN 51519 at 40°C, 9-11mm²/sec. (cST), Flash point 150°C minimum. (SERVOSPIN EE10 oil IOC (or) KLUBEROIL FT 1-10 BH (or) BECHEM M6 (or) ENI (Acer-OSO 10) (or) VEEDOL ALWEAVE PS (or) Equivalent

Other OEM Approvals

STÄUBLI

PICANOL

RIETER

itema

VAMATEX

KTTM

SMIT TEXTILE

DORNIER

Novibra

Cummins

WÄRTSILÄ

MAYER

KARL MAYER

WE CARE ABOUT YOUR FUTURE

SOMET

QUALITY FROM AGIP

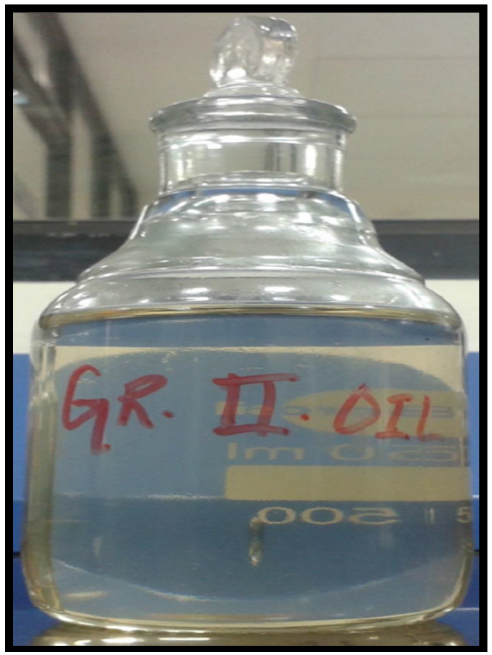
Difference from Competitor

Conventional Group I base oil used by competitor – Dark Coloured

AGIP Products are made out of Group II & III Base oil which are Colourless

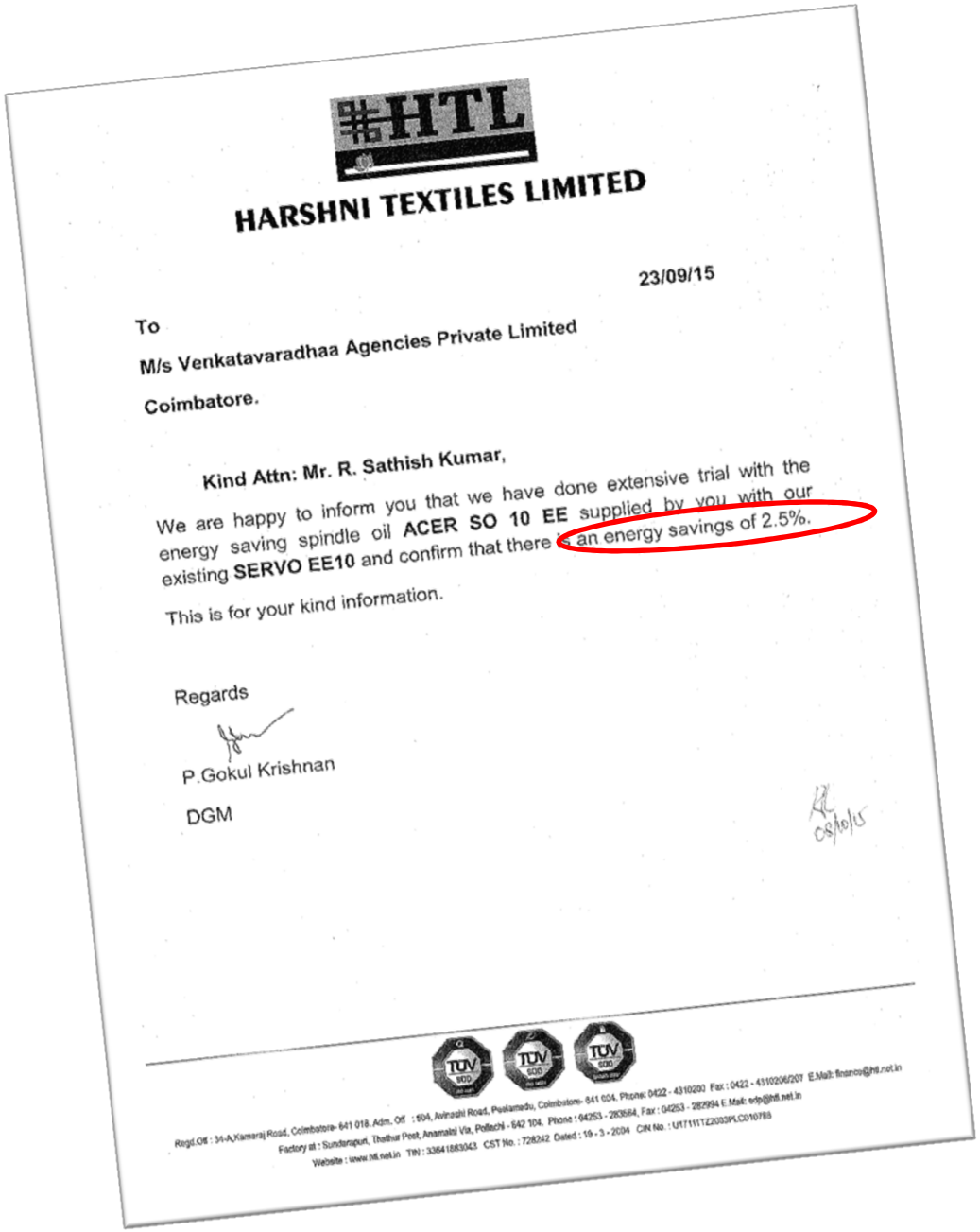
Benefits of Group II Base Oil

- HIGHLY OXIDATION & THERMAL STABLE more then 165% compare to Group I
  - ✓ Longer Lubricant Life
  - ✓ Longer Relubrication Interval
  - ✓ Doesn't degrade or thicken at higher temperature
- VERY HIGH VISCOSITY INDEX
  - ✓ Better Viscosity retention during temperature change
  - ✓ Helps oil to perform at optimum efficiency even at higher temperatures
- LOW VOLATILITY
  - ✓ Reduced Consumption
  - ✓ Reduced Deposits
- LOW AROMATICS & SULPHUR
  - ✓ Less Impurities



ENI ACER SO 10 EE

2% ENERGY SAVING *



HTL

HARSHNI TEXTILES LIMITED

23/09/15

To

M/s Venkatavaradhaa Agencies Private Limited

Coimbatore.

Kind Attn: Mr. R. Sathish Kumar,

We are happy to inform you that we have done extensive trial with the energy saving spindle oil **ACER SO 10 EE** supplied by you with our existing **SERVO EE10** and confirm that there is an energy savings of 2.5%.

This is for your kind information.

Regards

P.Gokul Krishnan

DGM

23/9/15

Regd.Off : 34-A,Kamaraj Road, Coimbatore- 641 018. Adm. Off : 504, Avinashi Road, Peelamedu, Coimbatore- 641 004. Phone: 0422 - 4310200 Fax : 0422 - 4310206/207 E.Mail: finance@htl.net.in
Factory at : Sundarapuri, Thathur Post, Anamalai Via, Pollachi - 642 104. Phone : 04253 - 283684, Fax : 04253 - 282994 E.Mail: erp@htl.net.in
Website : www.htl.net.in TIN : 33641883043 CST No. : 728242 Dated : 19 - 3 - 2004 CIN No. : U17111TZ2003PLC010788

- Average Energy Saving of 2.5% in Harsini Textiles, Anamalai

MALLUR SIDDESWARA SPINNING MILLS

ENERGY CONSERVATION REPORT ENI ACER SO 10 EE VS SERVO SPIN 10

COMPARISION OF REGULAR SPIN EE 10 OIL AND ENI ACER SO 10 EE OIL

SPIN EE 10 OIL

DESCRIPTION	RF-31	RF-31	RF-31	RF-31	RF-31	RF-31
DATE	21/01/2016	21/01/2016	22/01/2016	23/01/2016	23/01/2016	22/01/2016
MACHINE MAKE	JEETS	JEETS	JEETS	JEETS	JEETS	JEETS
COUNT	50/1 CHY	50/1 CHY	50/1 CHY	50/1 CHY	50/1 CHY	50/1 CHY
SPINDLE MAKE	RAMBAL	RAMBAL	RAMBAL	RAMBAL	RAMBAL	RAMBAL
WARVE DIA	18.5MM	18.5MM	18.5MM	18.5MM	18.5MM	18.5MM
RING DIA	36MM	36MM	36MM	36MM	36MM	36MM
NO OF SPINDLES	492	492	492	492	492	492
TPI	25.88	25.88	25.88	25.88	25.88	25.88
MAIN MOTOR KW	18.5	18.5	18.5	18.5	18.5	18.5
SUCTION MOTOR KW	2.2	2.2	2.2	2.2	2.2	2.2
AVG COP WT	40.02GRAMS	40.63GRAMS	41.5GRAMS	41.8 GRAMS	42.7GRAMS	42.8GRAMS
IDEAL SPINDLE	NIL	NIL	3 NOS	2 NOS	NIL	NIL
R HOURS	3Hrs20mins	3Hrs20mins	3Hrs25mins	3Hrs30mins	3Hrs32mins	3Hrs25mins
SET LENGTH	3578	3578	3578	3578	3578	3578
DOFF LENGTH	3408	3410	3477	3516	3518	3555
PRODUCTION IN KGS	19.69	19.99	20.32	20.5	21.03	21.1
AVERGE SPEED IN RPM	17967	17967	17967	17967	17967	17967
UNIT CONSUMED	39.69	40.17	40.87	41.08	41.4	41.67
UNIT /HOUR	11.91	12.06	11.95	11.73	11.72	11.63
UNIT /KG	2.02	2.01	2.01	2.00	1.97	1.97
AVERAGE UNIT /KG	2.00					

ENI LUPERICATION ACER SO 10 EE

DESCRIPTION	RF-31	RF-31	RF-31	RF-31	
DATE	30/01/2016	30/01/2016	30/01/2016	31/01/2016	SPEED PATTERN
MACHINE MAKE	JEETS	JEETS	JEETS	JEETS	1.716-14800
COUNT	50/1 CHY	50/1 CHY	50/1 CHY	50/1 CHY	*2.858-15875*
SPINDLE MAKE	RAMBAL	RAMBAL	RAMBAL	RAMBAL	*3.1003-16809*
WARVE DIA	18.5MM	18.5MM	18.5MM	18.5MM	*4.1109-17512*
RING DIA	36MM	36MM	36MM	36MM	*5.1217-18595*
NO OF SPINDLES	492	492	492	492	*6.1288-19242*
TPI	25.88	25.88	25.88	25.88	*7.2710-19242*
MAIN MOTOR KW	18.5	18.5	18.5	18.5	*8.3455-19242*
SUCTION MOTOR KW	2.2	2.2	2.2	2.2	*9.3506-19243*
AVG COP WT	40.02GRAMS	40.63GRAMS	41.5GRAMS	41.8 GRAMS	*10.3542-18681*
IDEAL SPINDLE	NIL	NIL	NIL	2 NOS	*11.3578-18542*
R HOURS	3Hrs15mins	3Hrs15mins	3Hrs30mins	3Hrs15mins	
SET LENGTH	3578	3578	3578	3578	
DOFF LENGTH	3458	3412	3435	3500	
PRODUCTION IN KGS	20.17	19.1	19.23	20.21	
AVERGE SPEED IN RPM	17967	17967	17967	17967	
UNIT CONSUMED	35.32	35.5	35.66	36.21	
UNIT /HOUR	10.86	10.92	10.8	11.42	
UNIT /KG	1.75	1.86	1.85	1.79	
AVERGE UNIT/KG	1.81				

CONCLUSION : WHILE COMPARED WITH SPIN EE 10 OIL AND ENI ACER SO 10 EE OIL

1. AVERAGE UNIT/KG 0.19 UNIT REDUCED IN ENI ACER SO 10 EE OIL COMPARED WITH SPIN EE 10 OIL.

- Average unit of 0.19 reduced per Kg in ACER SO 10 EE @ MSSM

Lube Doc.

Customer Information	Equipment Information		Sample Information		Oil Analysis
Sidhewara Spinning Mills	Equipment	: Ring frame no. 26	Lubricant brand	: eni	Apar Lubricants Limited
Mallur, Coimbatore	Model	: -	Lubricant name	: Acer SO 10 EE	18, TTC MIDC Industrial Area
	Make	: -	Viscosity grade	: ISO VG 10	Thane-Belapur Road
	Total Running	: -	Sent by	: Mr. Mithun Kumar	Rabale - 400701
	Sump Capacity	: -			Navi Mumbai
	Date of oil change	: -			sarath.s@apar.com
					Ph : 9167087753

Sample Information				Physico - chemical Parameters							
Sample ID	Oil name	Used hours	Appearance	Viscosity at 40°C, cSt	Viscosity at 100°C, cSt	VI	Flash point	TAN	Colour	Water	Insolubles
G - 799/16	Acer SO 10 EE	3 months	Clear	12.32	3.09	112	170	0.16	< 4.5	NIL	NIL

ELEMENTAL SPECTROMETRY

Sample Information		Wear elements (ppm)							Contaminants (ppm)		
Sample ID	Equipment	Aluminium	Chromium	Iron	Copper	Nickel	Lead	Tin	Silicon	Sodium	Potassium
G - 799/16	Ring frame no. 26	3	1	89	27	< 1	1	< 1	9	7	< 1

COMMENTS AND CONCLUSION

Viscosity of the oil is within the acceptable limits.
TAN of the oil is less and within the acceptable limits.
There is no major oil degradation since there is no presence of insolubles in the oil.

Elemental analysis result shows all elements within the acceptable limits. There is no major wear and tear.

SUGGESTIONS

The above sample result shows that the parameters are within the acceptable limits. Oil seems to be in good condition.

Oil is fine | Oil needs attention | Oil is in danger

- 3 Months Oil Analysis Report indicates oil condition is good

Lube Doc.

Customer Information	Equipment Information		Sample Information		Oil Analysis
Adwith Lakshmi Textiles	Equipment	: Machine no. 14	Lubricant brand	: eni	Apar Lubricants Limited
Coimbatore	Model	: -	Lubricant name	: Acer SO 10 EE	18, TTC MIDC Industrial Area
	Make	: -	Viscosity grade	: ISO VG 10	Thane-Belapur Road
	Total Running	: -	Sent by	: Mr. Mithun Kumar	Rabale - 400701
	Sump Capacity	: -			Navi Mumbai
	Date of oil change	: -			xxxxth.x@xpar.com
					Ph : 9167087753

Sample Information				Physico - chemical Parameters							
Sample ID	Oil name	Used hours	Appearance	Viscosity at 40°C, cSt	Viscosity at 100°C, cSt	VI	Flash point	TAN	Colour	Water	Insolubles
G - 711/16	Acer SO 10 EE	3 months	Clear	10.74	2.84	112	158	0.33	< 4.0	NIL	NIL

ELEMENTAL SPECTROMETRY

Sample Information		Wear elements (ppm)							Contaminants (ppm)		
Sample ID	Equipment	Aluminium	Chromium	Iron	Copper	Nickel	Lead	Tin	Silicon	Sodium	Potassium
G - 711/16	Machine no. 14	5	1	84	14	< 1	1	< 1	8	4	< 1

COMMENTS AND CONCLUSION

Viscosity of the oil is within the acceptable limits.
TAN of the oil is less and within the acceptable limits.
There is no major oil degradation since there is no presence of insolubles in the oil.

Elemental analysis result shows all elements within the acceptable limits. There is no major wear and tear.

SUGGESTIONS

The above sample result shows that the parameters are within the acceptable limits. Oil seems to be in good condition.

Oil is fine | Oil needs attention | Oil is in danger

- 3 Months Oil Analysis Report indicates oil condition is good

Lube Doc.

Customer Information	Equipment Information		Sample Information		Oil Analysis
Jay Textiles	Equipment	: 31 - LR6/S	Lubricant brand	: eni	Apar Lubricants Limited
Othakkal Mandapam	Model	: -	Lubricant name	: Acer SO 10 EE	18, TTC MIDC Industrial Area
	Make	: -	Viscosity grade	: ISO VG 10	Thane-Belapur Road
	Total Running	: -	Sent by	: Mr. Mithun Kumar	Rabale - 400701
	Sump Capacity	: -			Navi Mumbai
	Date of oil change	: 02.12.2015			sanath.s@apar.com
					Ph : 9167087753

Sample Information				Physico - chemical Parameters							
Sample ID	Oil name	Used hours	Appearance	Viscosity at 40°C, cSt	Viscosity at 100°C, cSt	VI	Flash point	TAN	Colour	Water	Insolubles
G - 712/16	Acer SO 10 EE	7 months	Clear	10.95	2.87	111	158	0.41	< 5.5	NIL	NIL

ELEMENTAL SPECTROMETRY

Sample Information		Wear elements (ppm)							Contaminants (ppm)		
Sample ID	Equipment	Aluminium	Chromium	Iron	Copper	Nickel	Lead	Tin	Silicon	Sodium	Potassium
G - 712/16	31 - LR6/S	4	1	70	164	1	2	6	11	2	1

COMMENTS AND CONCLUSION

Viscosity of the oil is within the acceptable limits.
TAN of the oil is less and within the acceptable limits.
There is no major oil degradation since there is no presence of insolubles in the oil.

Elemental analysis result shows the presence of copper in oil. The presence of copper is very high and is beyond the acceptable limits.

SUGGESTIONS

Kindly check for the source of copper in the oil. Copper does not come from the oil side.
The ingress of copper might be possibly from the equipment side.

Oil is fine | Oil needs attention | Oil is in danger

- 7 Months Oil Analysis Report indicates oil condition is good

Lube Doc.

Customer Information	Equipment Information		Sample Information		Oil Analysis
Hamini Textiles	Equipment	: Machine no. 45	Lubricant brand	: eni	Apar Lubricants Limited
Coimbatore	Model	: -	Lubricant name	: Acer SO 10 EE	18, TTC MIDC Industrial Area
	Make	: -	Viscosity grade	: ISO VG 10	Thane-Belapur Road
	Total Running	: 10 months	Sent by	: Mr. Mithun Kumar	Rabale - 400701
	Sump Capacity	: -			Navi Mumbai
	Date of oil change	: 07.09.2015			sarath.s@apar.com
	Date of sampling	: 13.07.2016			Ph : 9167087753

Sample Information				Physico - chemical Parameters							
Sample ID	Oil name	Used hours	Appearance	Viscosity at 40°C, cSt	Viscosity at 100°C, cSt	VI	Flash point	TAN	Colour	Water	Insolubles
J - 1089/16	Acer SO 10 EE	10 months	Dark	10.95	2.81	110	172	0.81	D 8.0	NIL	NIL

ELEMENTAL SPECTROMETRY

Sample Information		Wear elements (ppm)							Contaminants (ppm)		
Sample ID	Equipment	Aluminium	Chromium	Iron	Copper	Nickel	Lead	Tin	Silicon	Sodium	Potassium
J - 1089/16	Machine no. 45	6	1	85	98	< 1	< 1	10	16	5	1

COMMENTS AND CONCLUSION

Viscosity of the oil is within the acceptable limits.
TAN of the oil is within the acceptable limits.
Insolubles is nil, indicating no significant oil degradation.

Elemental analysis result shows increase in the presence of Copper in the oil and is in the border of rejection limits.
Kindly check for the ingress of Copper in the oil. Copper does not come from the oil side.

SUGGESTIONS

Oil parameters are well within the acceptable limits. Oil seems to be in good condition.

Oil is fine | Oil needs attention | Oil is in danger

- 10 Months Oil Analysis Report indicates oil condition is good