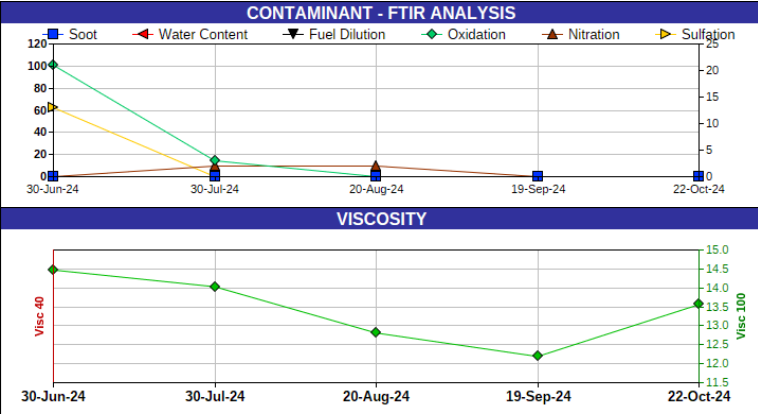
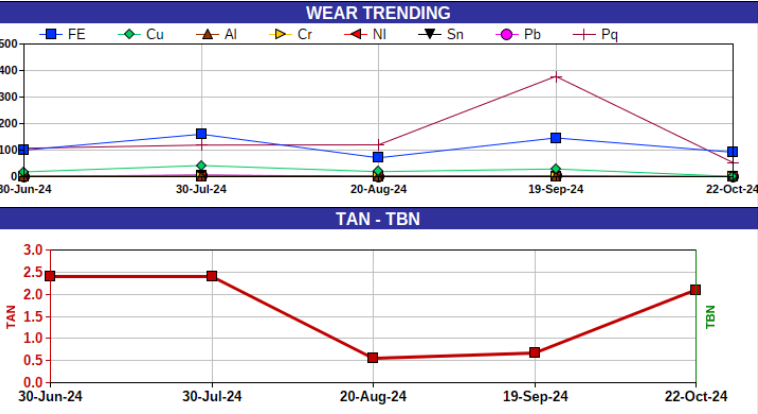


Customer Name	: PT.ANTAREJA MAHADA MAKMUR	Unit Number	: PM55804	Viscosity@100\B0C	:
Address	: ACEH	Component	: REAR FRONT DIFFERENTIAL	Viscosity@40\B0C	:
Unit Model	: ACTROS 4058	Component Matrix	: LI0020N085436AX	T A N	:
Serial Number	: PM55804	Oil Matrix	: FUCHS_80w90		

Test Detail								Overall Aanalysis Result	
Lab. Number		J24050828	J24063178	J24072608	J24084856	J24098566		 NORMAL	
Sampling Date		2024-06-21	2024-07-17	2024-08-14	2024-09-13	2024-10-13			
Received Date		2024-06-27	2024-07-29	2024-08-19	2024-09-18	2024-10-21			
Report Date		2024-06-30	2024-07-30	2024-08-20	2024-09-19	2024-10-22			
Hours on Oil		214	664	479	989	503			
Hours on Unit		534	984	1463	1973	2476			
Lube Oil Name		FUCHS 80W90	FUCHS 80W90	FUCHS 80W90	FUCHS 80W90	FUCHS 80W90			
Oil Change		No	Yes	NO	Yes	No			
Status		CAUTION	CAUTION	NORMAL	CAUTION	NORMAL			
Physical Test	Unit	Method						Caution	Critical
Visc@40C	cSt	ASTM D7279-20							
Visc@100C	cSt	ASTM D7279-20	14.47	14.03	12.81	12.19	13.56		
T A N	mg KOH/g	ASTM D974-22	2.4	2.4	0.55	0.67	2.1		
Metal Additive								Warning	Limit
Magnesium (Mg)	ppm	ASTM D5185-18	5	5	1	1	1		
Calcium (Ca)	ppm	ASTM D5185-18	57	5	17	78	42		
Zinc (Zn)	ppm	ASTM D5185-18	18	3	9	30	20		
Molybdenum (Mo)	ppm	ASTM D5185-18							
Boron (B)	ppm	ASTM D5185-18							
Phosphor (P)	ppm	ASTM D5185-18							
Contaminant								60	80
Natrium (Na)	ppm	ASTM D5185-18	2	1	3	0	3		
Silicon (Si)	ppm	ASTM D5185-18	4	5	3	5	2		
Fuel Dilution	%v	ASTM E2412-23	0	0	0	0	0		
Fame Dilution	%v	ASTM E2412-23							
Water Content	%v	ASTM E2412-23	0	0	0	0	0		
Glycol	%v	ASTM E2412-23	0	0	0	0	0	0.1	0.2
Wear Metal								200	300
Iron (Fe)	ppm	ASTM D5185-18	100	160	71	146	92		
Copper (Cu)	ppm	ASTM D5185-18	18	42	19	29	1		
Alumunium (Al)	ppm	ASTM D5185-18	1	1	0	1	1		
Chromium (Cr)	ppm	ASTM D5185-18	2	2	1	1	1		
Nickel (Ni)	ppm	ASTM D5185-18	0	0	0	0	0		
Tin (Sn)	ppm	ASTM D5185-18	2	5	2	2	0		
Lead (Pb)	ppm	ASTM D5185-18	2	6	2	3	0		
Pb 75th Percentile									
PQ Index	-	D8184-18	107	119	120	378	53		
Color		ASTM D1500-12						5	10
FTIR								300	500
Soot	Abs/cm	ASTM E2412-23	0	0	0	0	0	30	50
Oxidation	Abs/cm	ASTM E2412-23	21	3	0	0	0		
Nitration	Abs/cm	ASTM E2412-23	0	2	2	0	0		
Sulfation	Abs/cm	ASTM E2412-23	13	0	0	0	0		
Cleanliness								30	50
4 um	Particles/ml								
6 um	Particles/ml								
15 um	Particles/ml								
ISO CODE		ISO 4406 : 2021							
Foaming Characteristic									
Seq I	ml/ml	ASTM D892-18							
Seq II	ml/ml	ASTM D892-18							
Seq III	ml/ml	ASTM D892-18							



Source of Abnormality

Hasil analisa NORMAL.

Action to be Taken

Resampling 500 jam berikutnya untuk monitoring.