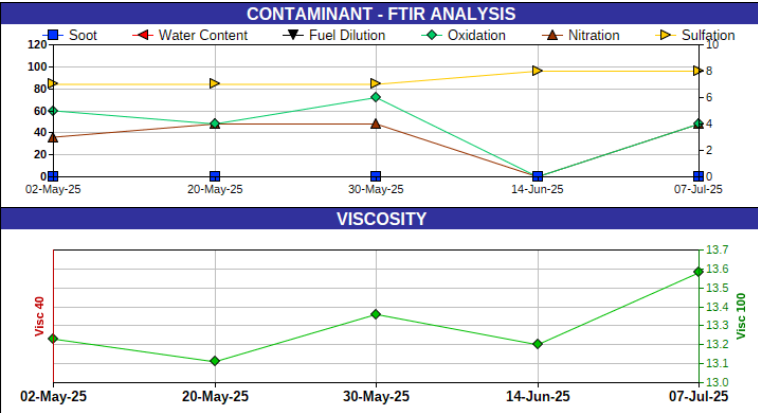
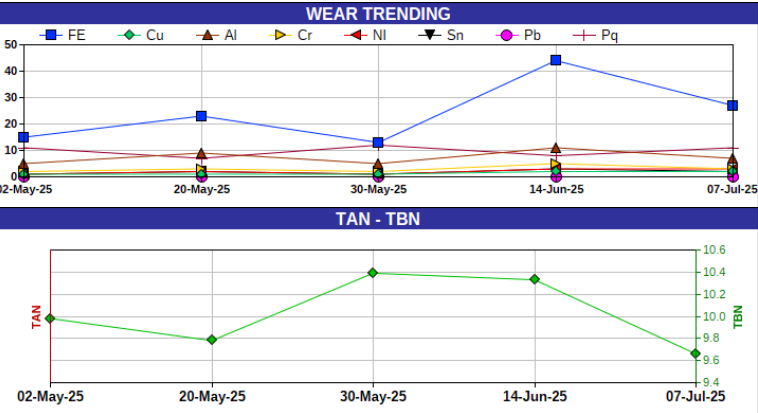


Customer Name	: PT.ANTAREJA MAHADA MAKMUR	Unit Number	: PM55802	Viscosity@100\B0C	:
Address	: ACEH	Component	: ENGINE	Viscosity@40\B0C	:
Unit Model	: ACTROS 4058	Component Matrix	: LI0020N085436EN	T B N	:
Serial Number	: W1T96441720727091	Oil Matrix	: GEN DSO 15W-40		

Test Detail								Overall Aanalysis Result	
Lab. Number		J25048589	J25055830	J25060718	J25067178	J25076342		 NORMAL	
Sampling Date		2025-04-27	2025-05-11	2025-05-25	2025-06-09	2025-06-30			
Received Date		2025-05-02	2025-05-19	2025-05-30	2025-06-13	2025-07-07			
Report Date		2025-05-02	2025-05-20	2025-05-30	2025-06-14	2025-07-07			
Hours on Oil		283	250	236	238	264			
Hours on Unit		5493	5735	5971	6209	6473			
Lube Oil Name		MED_SX_PLUS_15W40_PPAMED_SX_PLUS_15W40_PPAMED_SX_PLUS_15W40_PPAMED_SX_PLUS_15W40_PPAMED_SX_PLUS_15W40_PPA							
Oil Change		Yes	Yes	Yes	Yes	Yes			
Status		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL			
Physical Test	Unit	Method						Caution	Critical
Visc@40C	cSt	ASTM D7279-20						90.3 121.22	82.65 132.24
Visc@100C	cSt	ASTM D7279-20	13.23	13.11	13.36	13.2	13.58	12.5 16.3	11.25 17.93
T A N	mg KOH/g	ASTM D974-22							
T B N	mg KOH/g	ASTM D2896-21	9.98	9.78	10.39	10.33	9.66	6.05	4.4
Metal Additive								Warning	Limit
Magnesium (Mg)	ppm	ASTM D5185-18	13	15	15	15	16		
Calcium (Ca)	ppm	ASTM D5185-18	2647	3357	3222	3081	3479		
Zinc (Zn)	ppm	ASTM D5185-18	860	921	900	893	1092		
Molybdenum (Mo)	ppm	ASTM D5185-18							
Boron (B)	ppm	ASTM D5185-18							
Phosphor (P)	ppm	ASTM D5185-18							
Contaminant								35	50
Natrium (Na)	ppm	ASTM D5185-18	3	0	1	3	1		
Silicon (Si)	ppm	ASTM D5185-18	3	3	4	11	7		
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		
Wear Metal								50	100
Iron (Fe)	ppm	ASTM D5185-18	15	23	13	44	27		
Copper (Cu)	ppm	ASTM D5185-18	1	1	1	2	2		
Alumunium (Al)	ppm	ASTM D5185-18	5	9	5	11	7		
Chromium (Cr)	ppm	ASTM D5185-18	2	3	2	5	3		
Nickel (Ni)	ppm	ASTM D5185-18	1	2	1	3	3		
Tin (Sn)	ppm	ASTM D5185-18	1	2	1	3	2		
Lead (Pb)	ppm	ASTM D5185-18	0	0	0	0	0		
Pb 75th Percentile								15	25
PQ Index	-	D8184-18	11	7	12	8	11	5	10
Color		ASTM D1500-12						24	32
FTIR								30	80
Soot	Abs/cm	ASTM E2412-23	0	0	0	0	0		
Oxidation	Abs/cm	ASTM E2412-23	5	4	6	0	4		
Nitration	Abs/cm	ASTM E2412-23	3	4	4	0	4		
Sulfation	Abs/cm	ASTM E2412-23	7	7	7	8	8		
Other Analysis								20	30
ISO CODE		ISO 4406 : 2021							



Source of Abnormality

Hasil analisa NORMAL.

Action to be Taken

Resampling 250 jam berikutnya untuk monitoring.