MOBIL LUBE PLUS+ II

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
ADVANCE MIXER 281
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

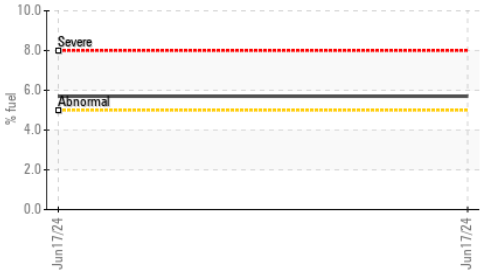
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

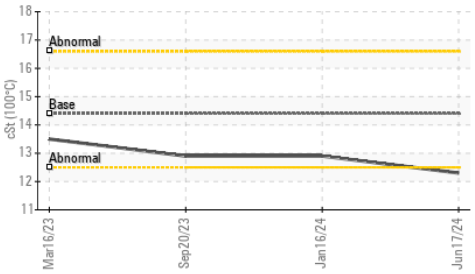
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001457	PCA0109561	LP0000903
Sample Date		Client Info		17 Jun 2024	16 Jan 2024	20 Sep 2023
Machine Age	hrs	Client Info		1840	1098	366
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	62	39	23
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	10
Lead	ppm	ASTM D5185m	>40	6	2	2
Copper	ppm	ASTM D5185m	>330	6	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	3	6
Potassium	ppm	ASTM D5185m	>20	3	2	3
Fuel	%	ASTM D3524	>5	▲ 5.7	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.8	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	20.5	19.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>158	<1	1	2
Boron	ppm	ASTM D5185m	250	9	11	26
Barium	ppm	ASTM D5185m	10	<1	0	3
Molybdenum	ppm	ASTM D5185m	100	14	28	68
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	81	333	483
Calcium	ppm	ASTM D5185m	3000	2078	1846	1614
Phosphorus	ppm	ASTM D5185m	1150	916	892	1047
Zinc	ppm	ASTM D5185m	1350	994	1101	1252
Sulfur	ppm	ASTM D5185m	4250	3341	3126	3498
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.1	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.91	7.30	9.66
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 12.3	12.9	12.9

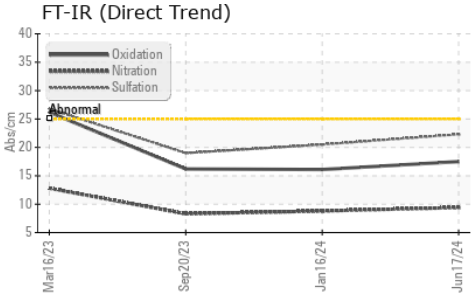
Fuel Dilution



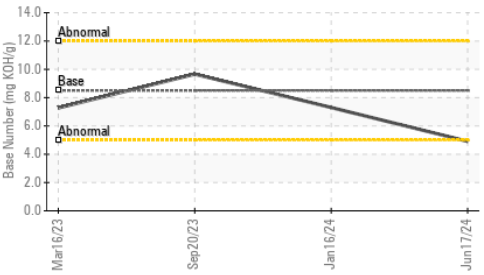
Viscosity @ 100°C



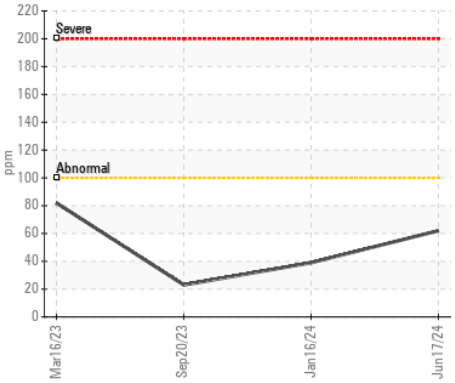
FT-IR (Direct Trend)



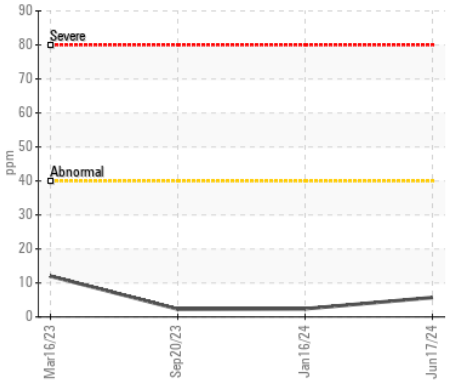
Base Number



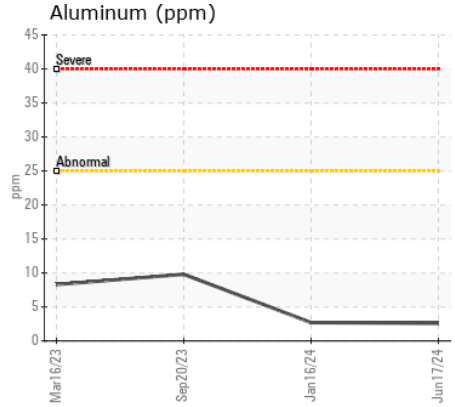
Iron (ppm)



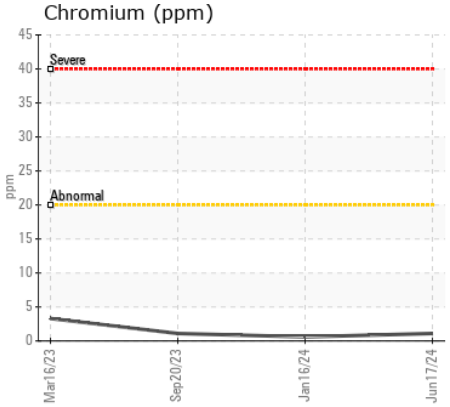
Lead (ppm)



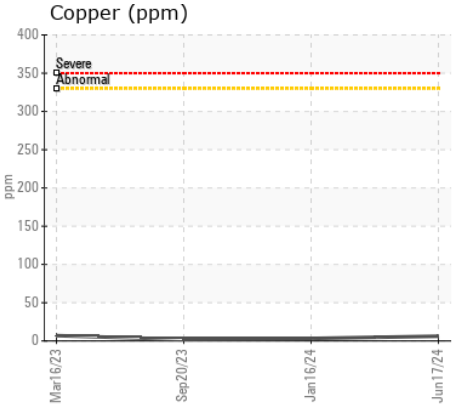
Aluminum (ppm)



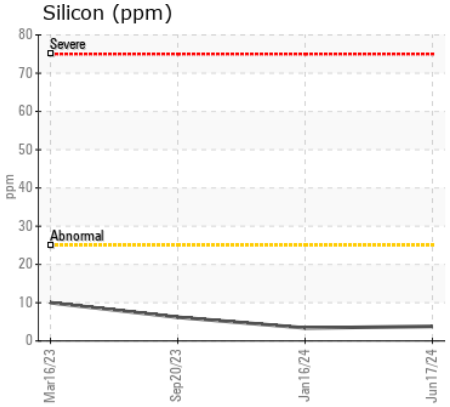
Chromium (ppm)



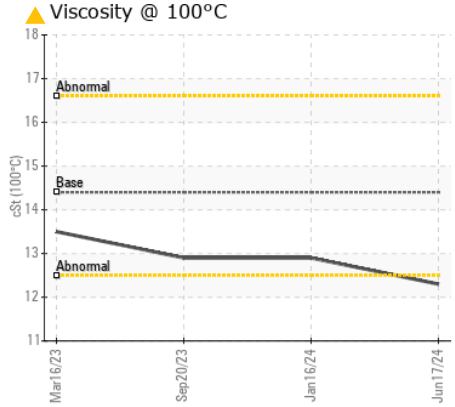
Copper (ppm)



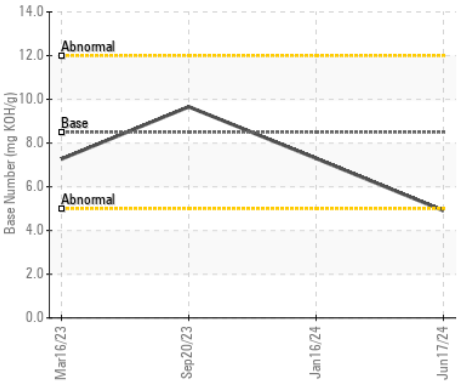
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001457
Lab Number : 06218909
Unique Number : 11097106
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 24 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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