MOB II LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
Kaiser France - Crankcase
Component
Reciprocating Compressor
Fluid
PETRO CANADA SENTRON ASHLESS 40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. (Customer Sample Comment: Suspected water or other fluid contamination)

WEAR

All component wear rates are normal.

CONTAMINATION

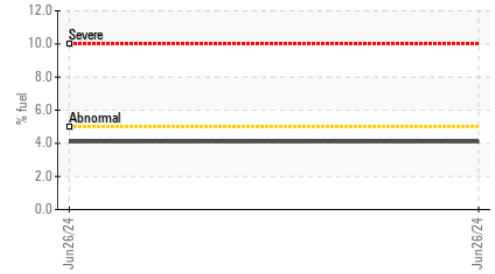
There is a moderate amount of fuel present in the oil. There is a moderate concentration of water present in the oil.

FLUID CONDITION

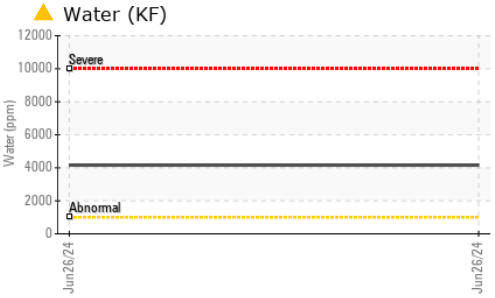
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0130763	---	---
Sample Date		Client Info		26 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>50	14	---	---
Chromium	ppm	ASTM D5185m	>10	2	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	<1	---	---
Lead	ppm	ASTM D5185m	>25	0	---	---
Copper	ppm	ASTM D5185m	>50	2	---	---
Tin	ppm	ASTM D5185m	>15	1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>25	5	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel	%	ASTM D3524		▲ 4.1	---	---
Water	%	ASTM D6304	>0.1	▲ 0.416	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 4160	---	---
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624		4.1	---	---
Sulfation	Abs/.1mm	*ASTM D7415		13.2	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---
Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m	106	32	---	---
Barium	ppm	ASTM D5185m	<1	0	---	---
Molybdenum	ppm	ASTM D5185m	<1	3	---	---
Manganese	ppm	ASTM D5185m	<1	0	---	---
Magnesium	ppm	ASTM D5185m	<1	9	---	---
Calcium	ppm	ASTM D5185m		949	---	---
Phosphorus	ppm	ASTM D5185m	657	444	---	---
Zinc	ppm	ASTM D5185m		248	---	---
Sulfur	ppm	ASTM D5185m	255	2846	---	---
Oxidation	Abs/.1mm	*ASTM D7414		7.4	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.80	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	1.6	3.27	---	---
Visc @ 100°C	cSt	ASTM D445	13.7	▲ 8.5	---	---

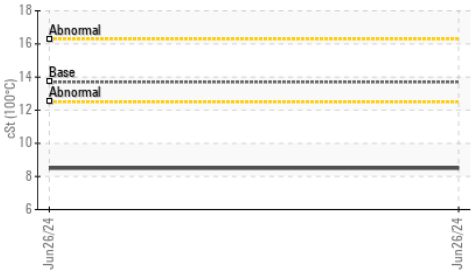
Fuel Dilution



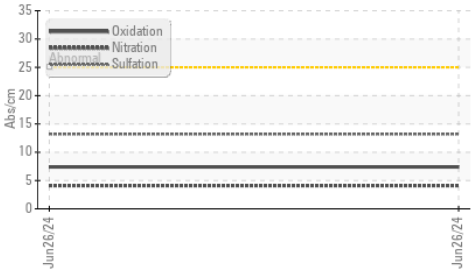
Water (KF)



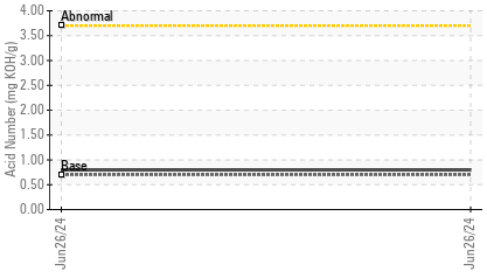
Viscosity @ 100°C



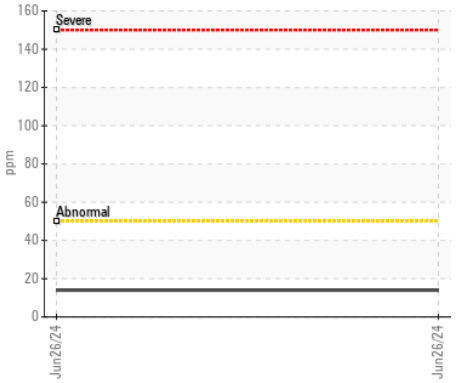
FT-IR (Direct Trend)



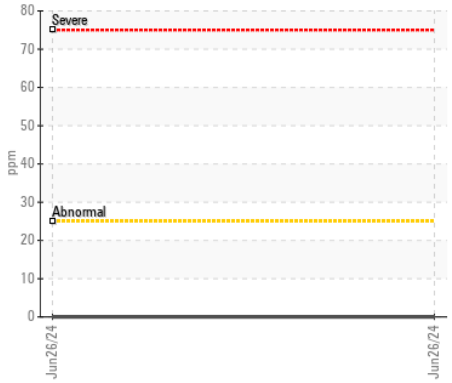
Acid Number



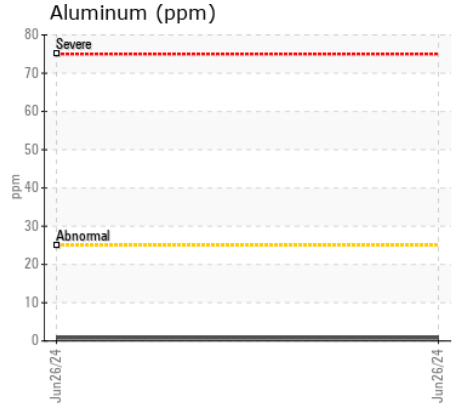
Iron (ppm)



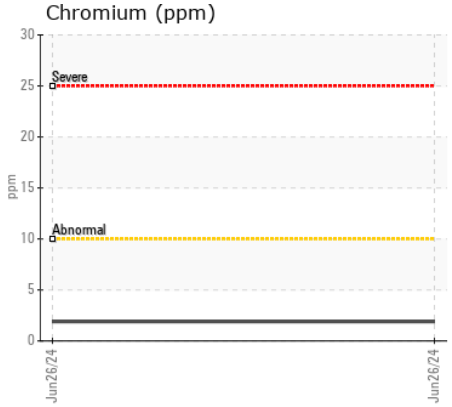
Lead (ppm)



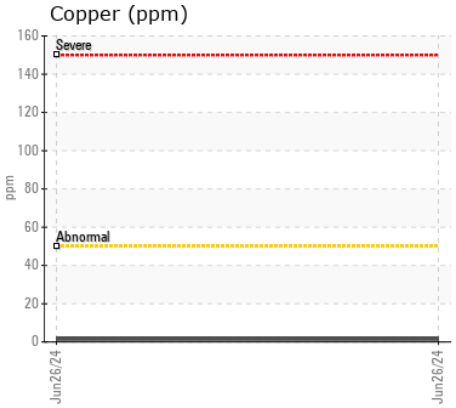
Aluminum (ppm)



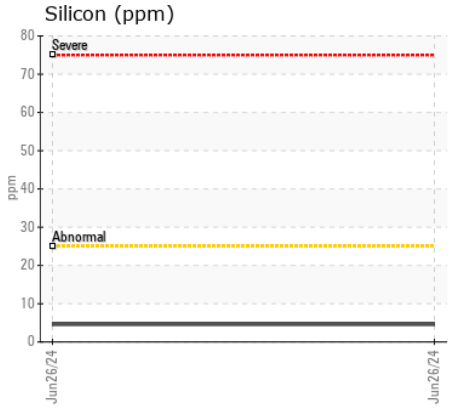
Chromium (ppm)



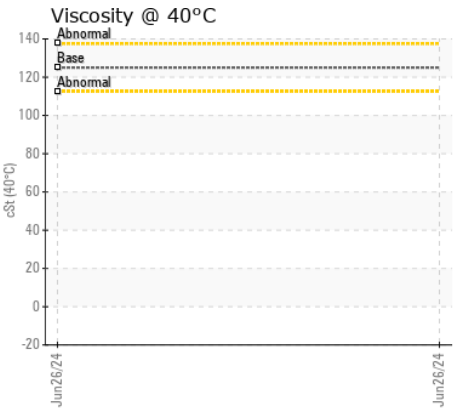
Copper (ppm)



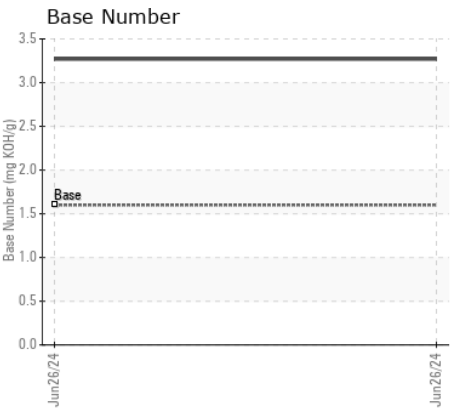
Silicon (ppm)



Viscosity @ 40°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0130763
Lab Number : 06225323
Unique Number : 11103520
Test Package : MOB 2 (Additional Tests: FT-IR, FuelDilution, KF, KV100, PercentFuel, TBN)

Received : 01 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Jonathan Hester

PETRO-CANADA LUBRICANTS - GARRETT BAPP
2416 N 12TH ST
BROKEN ARROW, OK
US 74012
Contact: GARRETT BAPP
T:
F:

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)