MOB II LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
HEX244696
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal.

CONTAMINATION

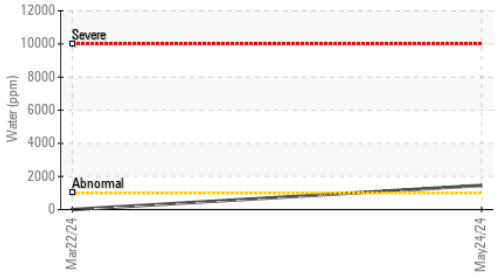
There is a light concentration of water present in the oil.

FLUID CONDITION

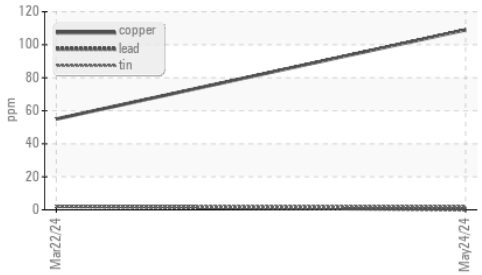
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0110076	PCA0090482	---
Sample Date		Client Info		24 May 2024	22 Mar 2024	---
Machine Age	hrs	Client Info		575	147	---
Oil Age	hrs	Client Info		575	147	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	15	9	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	3	3	---
Lead	ppm	ASTM D5185m	>20	<1	2	---
Copper	ppm	ASTM D5185m	>15	▲ 109	55	---
Tin	ppm	ASTM D5185m	>10	2	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	36	24	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.4	---
Water	%	ASTM D6304	>0.1	▲ 0.146	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1460	---	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		3	4	---
Boron	ppm	ASTM D5185m	0	23	68	---
Barium	ppm	ASTM D5185m	0	<1	0	---
Molybdenum	ppm	ASTM D5185m	60	85	81	---
Manganese	ppm	ASTM D5185m	0	3	3	---
Magnesium	ppm	ASTM D5185m	1010	15	14	---
Calcium	ppm	ASTM D5185m	1070	2226	2157	---
Phosphorus	ppm	ASTM D5185m	1150	1014	1025	---
Zinc	ppm	ASTM D5185m	1270	1240	1154	---
Sulfur	ppm	ASTM D5185m	2060	3867	4520	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.12	10.39	---
Visc @ 100°C	cSt	ASTM D445	15.4	● 10.3	● 10.8	---

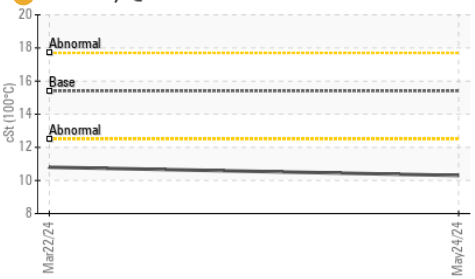
Water (KF)



Non-ferrous Metals

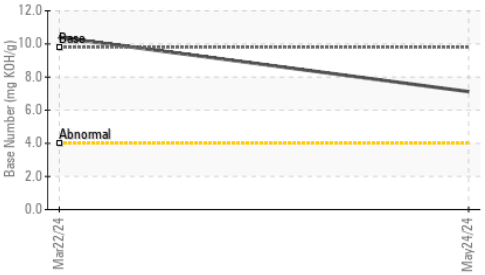


Viscosity @ 100°C

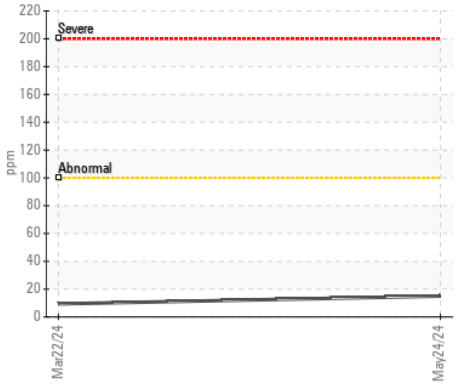


FT-IR (Direct Trend)

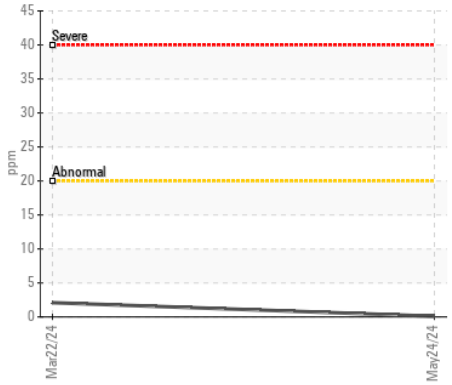
Base Number



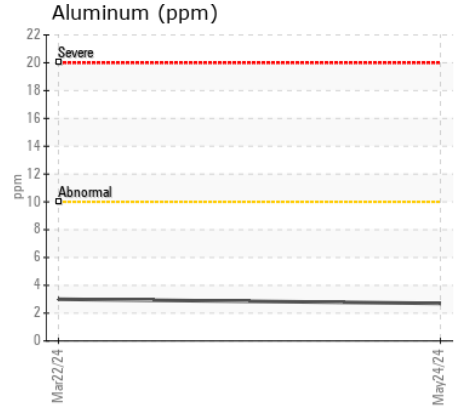
Iron (ppm)



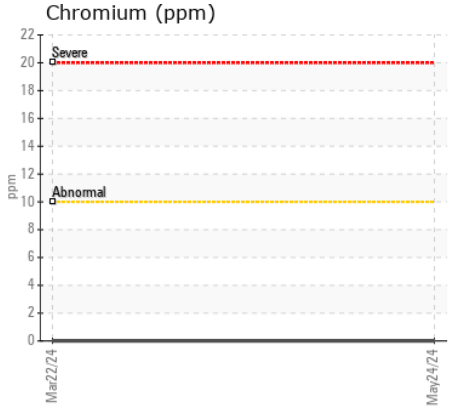
Lead (ppm)



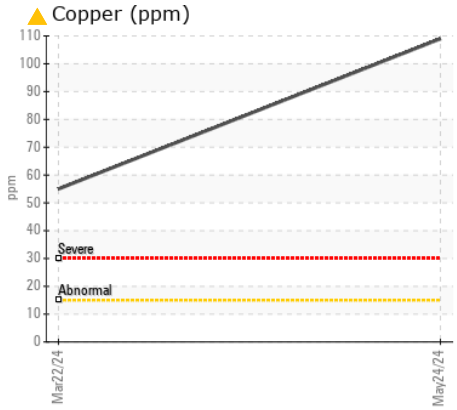
Aluminum (ppm)



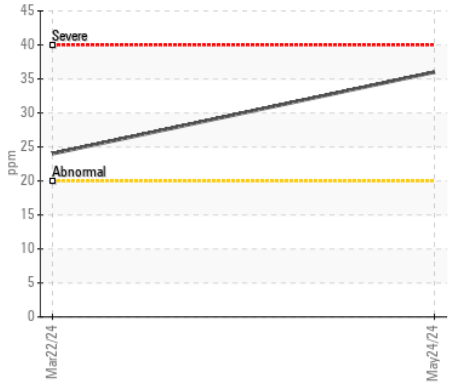
Chromium (ppm)



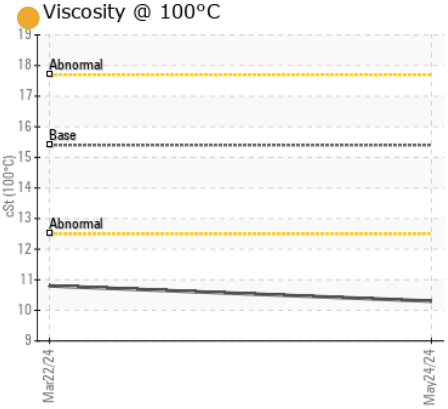
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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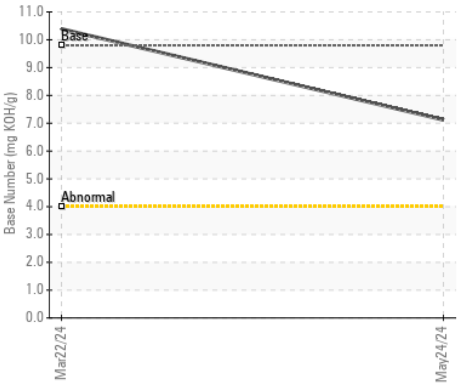

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110076
Lab Number : 06195625
Unique Number : 11057748
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel)

Received : 30 May 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Jonathan Hester

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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