MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
KEMP QUARRIES / PRYOR STONE [67030]
Machine Id
MLIFT003
Component
Right Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Pm4 performed. All oil samples taken. All oils, and all filters changed.)

WEAR

All component wear rates are normal.

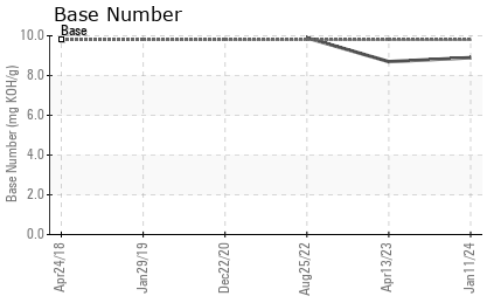
CONTAMINATION

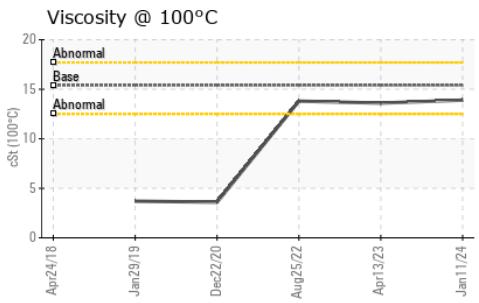
There is no indication of any contamination in the oil.

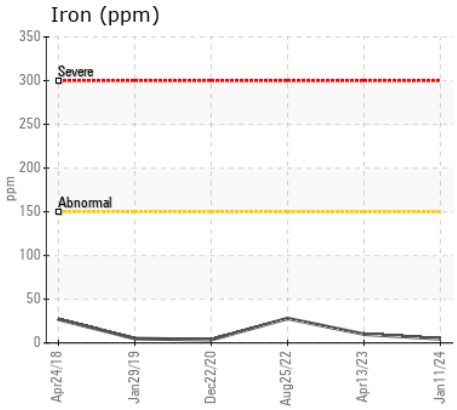
FLUID CONDITION

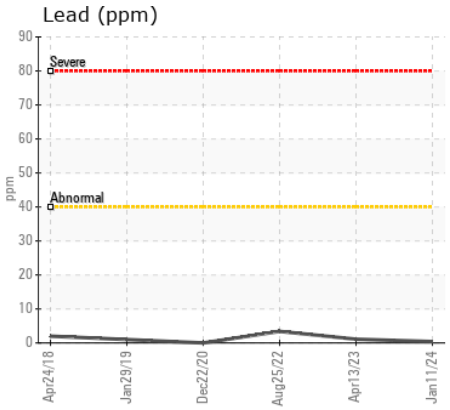
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

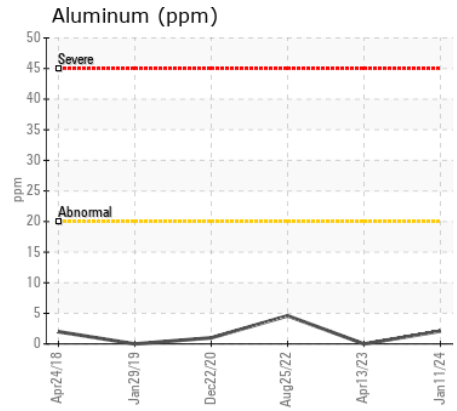
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0086267	PCA0086208	PCA0062596
Sample Date		Client Info		11 Jan 2024	13 Apr 2023	25 Aug 2022
Machine Age	hrs	Client Info		3896	3754	3564
Oil Age	hrs	Client Info		142	190	170
Filter Age	hrs	Client Info		142	190	170
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	5	10	28
Chromium	ppm	ASTM D5185m	>20	<1	1	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	5
Lead	ppm	ASTM D5185m	>40	<1	1	3
Copper	ppm	ASTM D5185m	>30	0	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	5	17
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Fuel		WC Method	>5	<1.0	<1.0	2.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.1	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	17.7	18.7
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		1	0	2
Boron	ppm	ASTM D5185m	0	9	<1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	60	54
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	873	897	907
Calcium	ppm	ASTM D5185m	1070	1077	1052	1088
Phosphorus	ppm	ASTM D5185m	1150	1025	982	999
Zinc	ppm	ASTM D5185m	1270	1223	1207	1217
Sulfur	ppm	ASTM D5185m	2060	3120	3045	3450
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.4	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.7	9.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.6	13.8

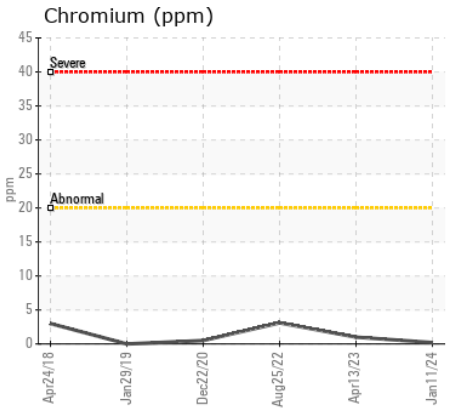


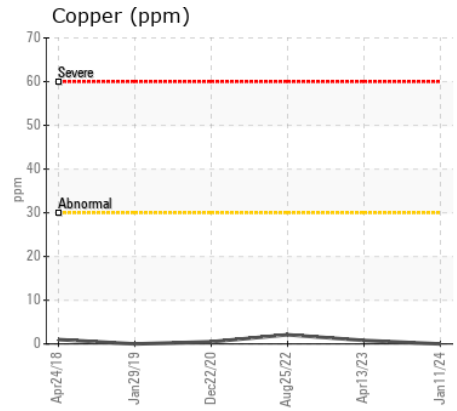


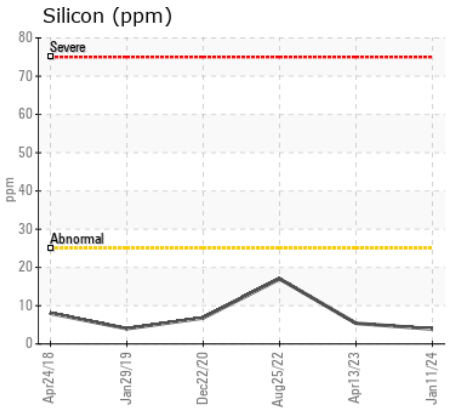


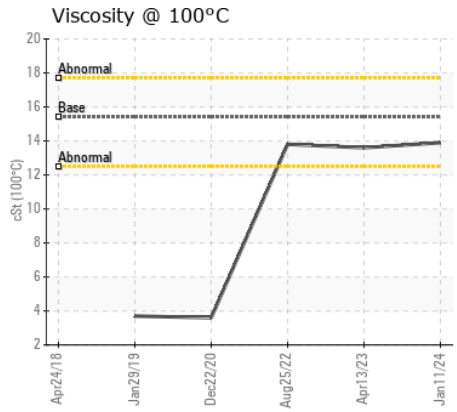


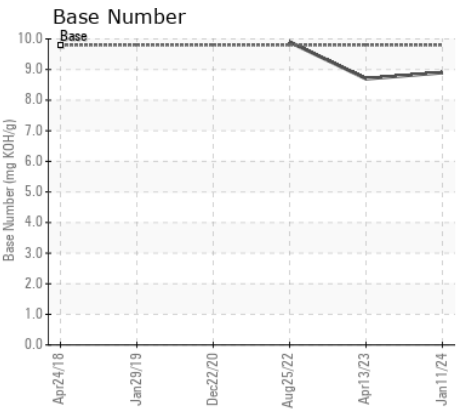












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086267
Lab Number : 06088087
Unique Number : 10875532
Test Package : MOB 1 (Additional Tests: TBN)

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 15 Feb 2024 - Don Baldridge

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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