FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
727146
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

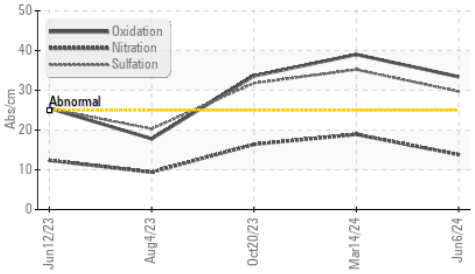
There is no indication of any contamination in the oil.

FLUID CONDITION

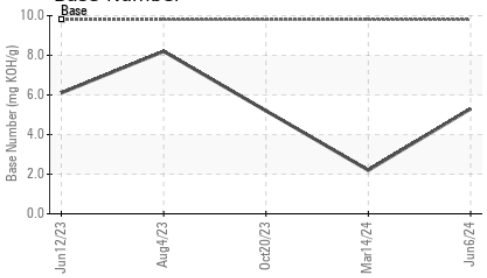
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0084801	GFL0084811	GFL0084858
Sample Date		Client Info		06 Jun 2024	14 Mar 2024	20 Oct 2023
Machine Age	hrs	Client Info		17666	17107	16009
Oil Age	hrs	Client Info		17107	17107	15935
Filter Age	hrs	Client Info		0	17107	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>80	54	▲ 124	78
Chromium	ppm	ASTM D5185m	>5	1	4	3
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	6	4
Lead	ppm	ASTM D5185m	>30	0	3	<1
Copper	ppm	ASTM D5185m	>150	<1	4	3
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	12	▲ 21	▲ 33
Potassium	ppm	ASTM D5185m	>20	5	10	● 35
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	1.3	2.4	1.9
Nitration	Abs/cm	*ASTM D7624	>20	13.8	18.9	16.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7	35.2	31.8
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		17	37	● 94
Boron	ppm	ASTM D5185m	0	3	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	68	58
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	929	1035	949
Calcium	ppm	ASTM D5185m	1070	1000	1202	1157
Phosphorus	ppm	ASTM D5185m	1150	965	1175	1035
Zinc	ppm	ASTM D5185m	1270	1190	1376	1230
Sulfur	ppm	ASTM D5185m	2060	3181	2938	2585
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.4	39.0	33.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.3	▲ 2.2	5.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	15.4	15.4

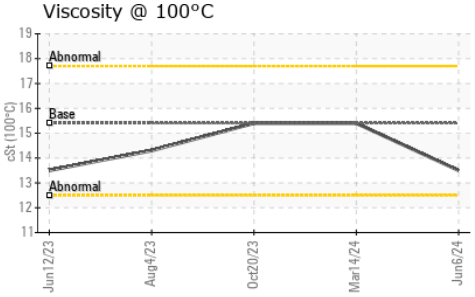
FT-IR (Direct Trend)



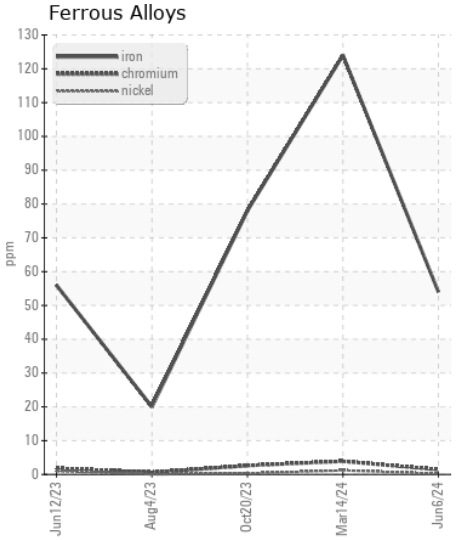
Base Number



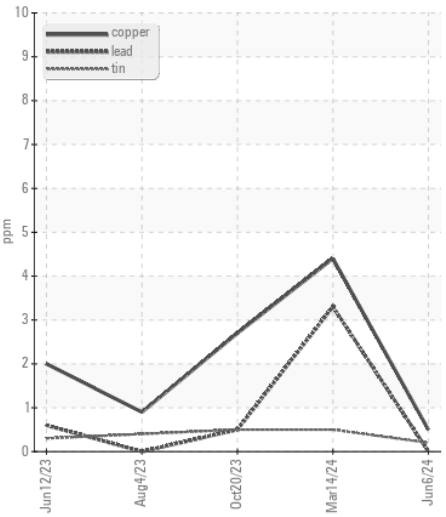
Viscosity @ 100°C



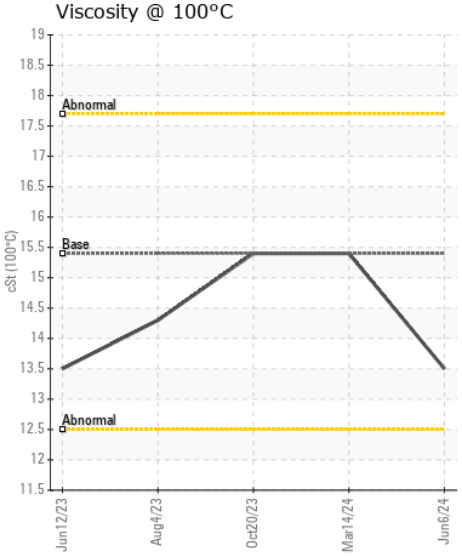
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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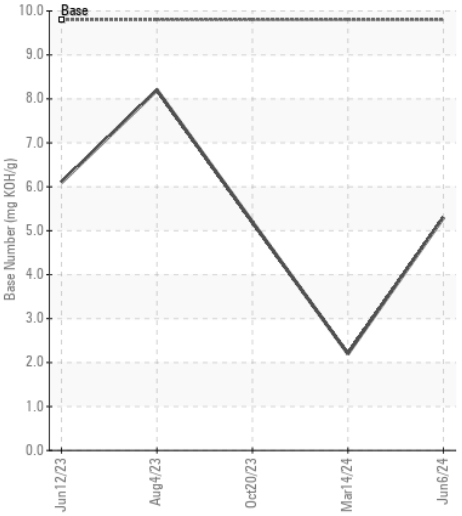

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0084801
Lab Number : 06214413
Unique Number : 11087277
Test Package : FLEET

Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 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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