FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(68J2UN)
Machine Id
928094-260343
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

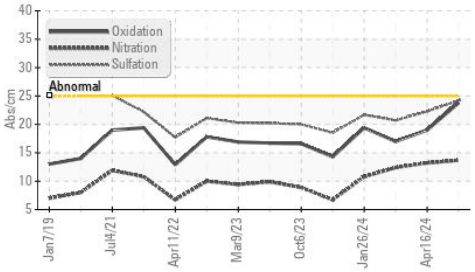
There is no indication of any contamination in the oil.

FLUID CONDITION

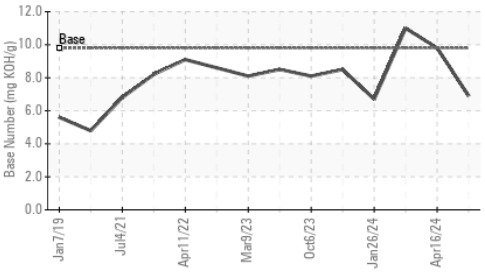
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118256	GFL0118163	GFL0109166
Sample Date		Client Info		09 Jul 2024	16 Apr 2024	19 Mar 2024
Machine Age	hrs	Client Info		7920	7400	7195
Oil Age	hrs	Client Info		700	700	150
Filter Age	hrs	Client Info		700	700	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>75	33	25	23
Chromium	ppm	ASTM D5185m	>5	2	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	6	5
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	0	<1	3
Tin	ppm	ASTM D5185m	>4	0	0	<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	9	13	11
Potassium	ppm	ASTM D5185m	>20	2	▲ 375	▲ 368
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	▲ 0.10
Soot %	%	*ASTM D7844	>6	1.3	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	13.7	13.2	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	22.3	20.7
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		7	● 823	▲ 980
Boron	ppm	ASTM D5185m	0	5	3	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	46	168	165
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	825	926	913
Calcium	ppm	ASTM D5185m	1070	991	1040	1135
Phosphorus	ppm	ASTM D5185m	1150	879	987	1088
Zinc	ppm	ASTM D5185m	1270	1064	1238	1223
Sulfur	ppm	ASTM D5185m	2060	2889	3401	3203
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	19.0	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	9.8	11.0
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	14.4	● 23.5

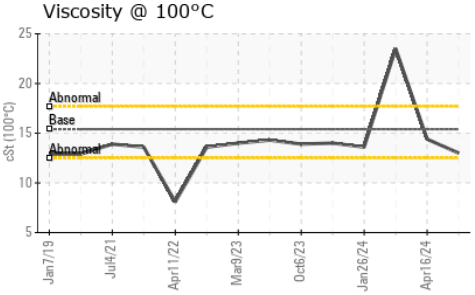
FT-IR (Direct Trend)



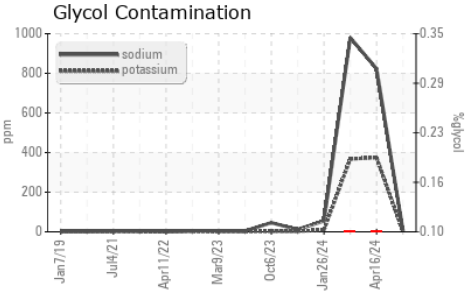
Base Number



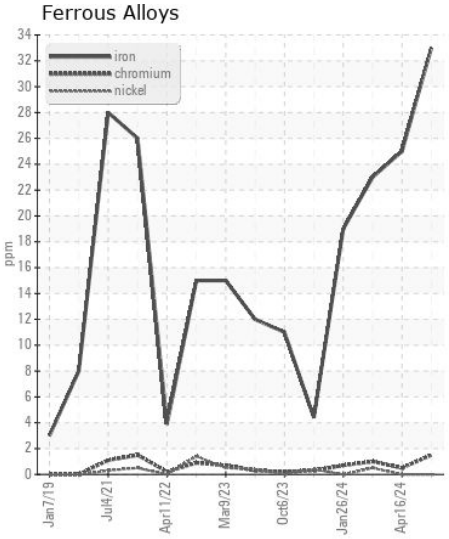
Viscosity @ 100°C



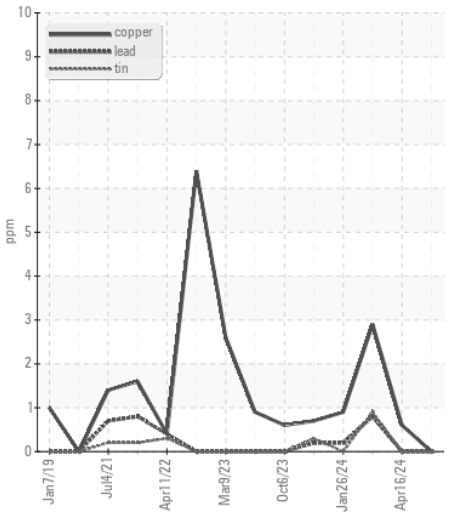
Glycol Contamination



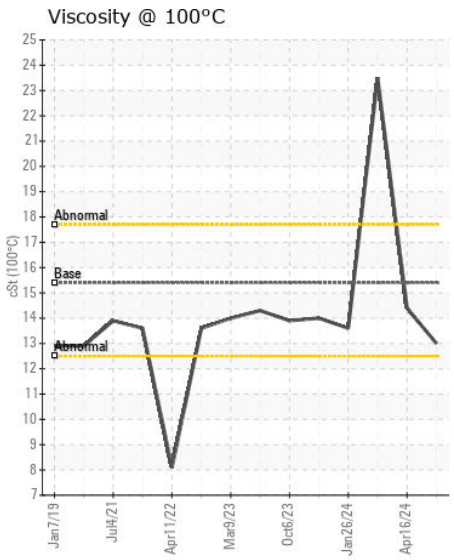
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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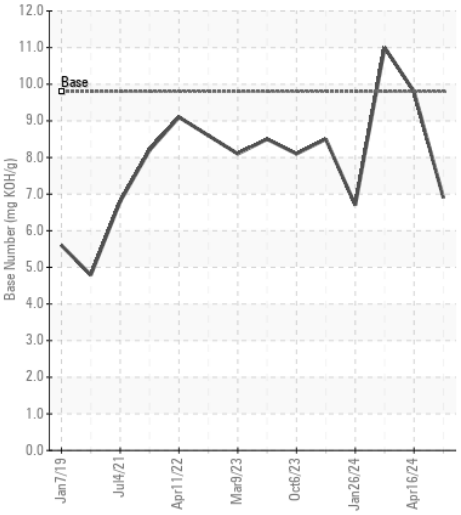

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0118256
Lab Number : 06238875
Unique Number : 11127709
Test Package : FLEET

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Sean Felton

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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