FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2602C PETERBILT 567
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Requested retest.)

WEAR

All component wear rates are normal.

CONTAMINATION

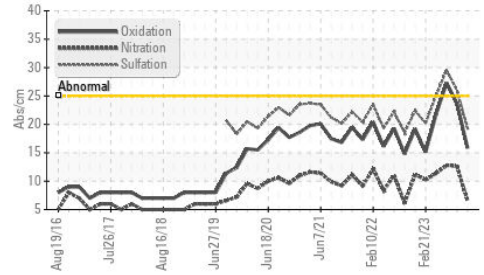
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

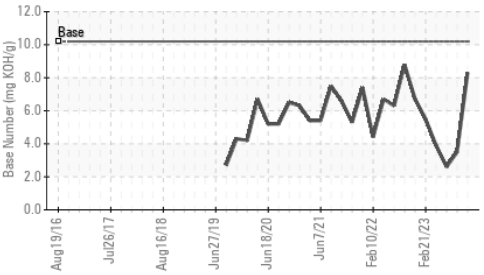
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0127947	GFL0127902	GFL0094741
Sample Date		Client Info		12 Jul 2024	09 Jul 2024	31 Jan 2024
Machine Age	mls	Client Info		309487	309487	22156
Oil Age	mls	Client Info		0	287331	1208
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	5	22	23
Chromium	ppm	ASTM D5185m	>4	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	2	4	6
Lead	ppm	ASTM D5185m	>30	1	28	▲ 56
Copper	ppm	ASTM D5185m	>35	6	4	8
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	5	14	19
Potassium	ppm	ASTM D5185m	>20	39	▲ 518	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	12.6	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	25.9	29.6
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		10	▲ 54	14
Boron	ppm	ASTM D5185m	50	43	11	13
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	47	62	57
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	560	548	594	645
Calcium	ppm	ASTM D5185m	1510	1454	1667	1826
Phosphorus	ppm	ASTM D5185m	780	761	795	884
Zinc	ppm	ASTM D5185m	870	900	1016	1106
Sulfur	ppm	ASTM D5185m	2040	2764	3035	2655
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	23.6	27.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.3	3.5	2.6
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.4	14.8

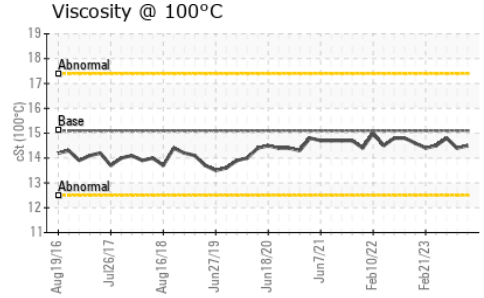
FT-IR (Direct Trend)



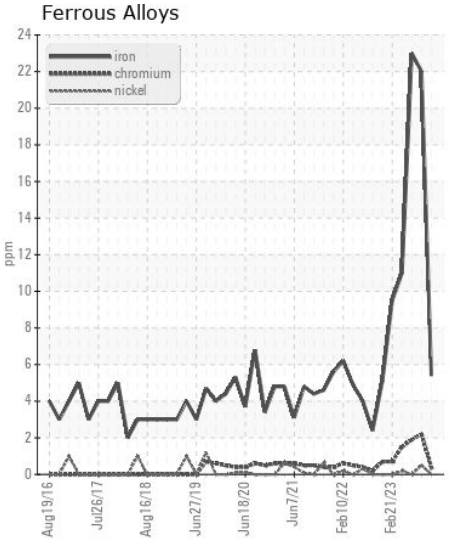
Base Number



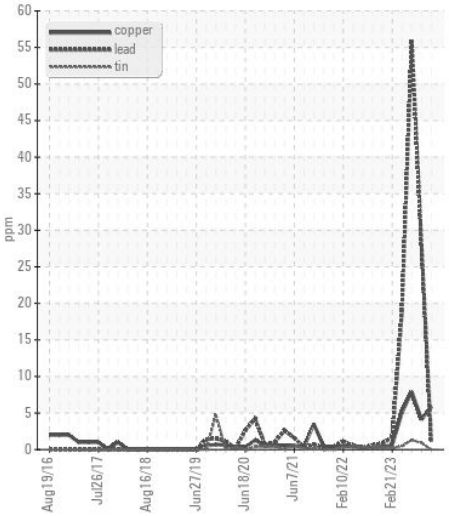
Viscosity @ 100°C



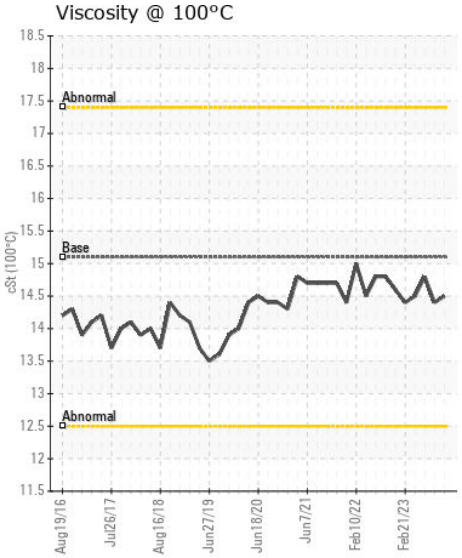
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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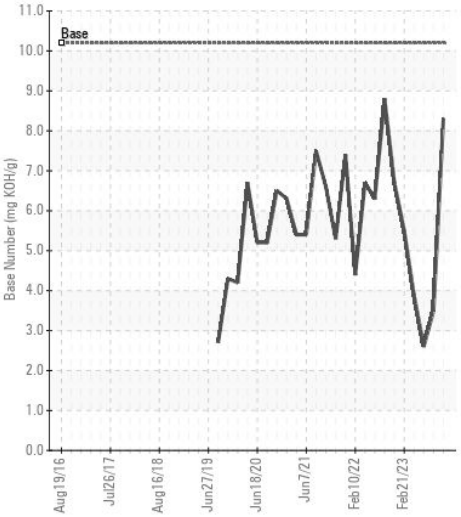

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0127947
Lab Number : 06238790
Unique Number : 11127624
Test Package : FLEET

Received : 17 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 19 Jul 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)

GFL Environmental - 001 - Raleigh(CNG)
3741 Conquest Drive
Garner, NC
US 27529
Contact: Craig Johnson
craig.johnson@gflenv.com
T: (919)662-7100
F: (919)662-7130