FLEET LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
CUMMINS 810030
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (28 QTS)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

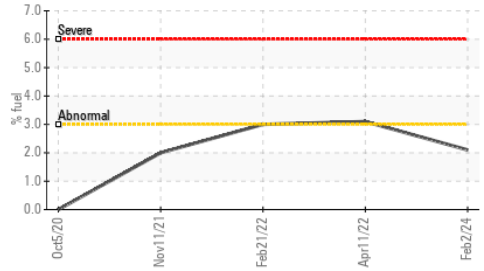
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

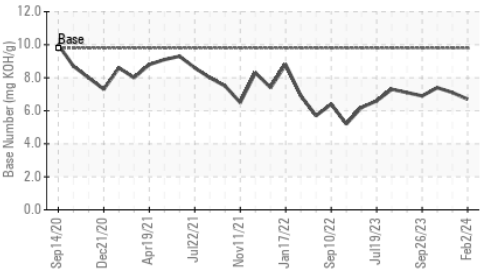
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0109083	GFL0109100	GFL0109062
Sample Date		Client Info		02 Feb 2024	11 Jan 2024	05 Jan 2024
Machine Age	hrs	Client Info		15987	15837	15744
Oil Age	hrs	Client Info		10655	15837	15744
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>75	10	35	6
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	2	5	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	<1	6	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	9	4
Potassium	ppm	ASTM D5185m	>20	2	2	3
Fuel	%	ASTM D3524	>3.0	▲ 2.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.5	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.4	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.3	17.7
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		4	7	0
Boron	ppm	ASTM D5185m	0	16	16	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	57
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	673	795	704
Calcium	ppm	ASTM D5185m	1070	1048	1046	1097
Phosphorus	ppm	ASTM D5185m	1150	878	957	772
Zinc	ppm	ASTM D5185m	1270	1046	1132	1089
Sulfur	ppm	ASTM D5185m	2060	2594	2774	2862
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	13.5	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.1	7.4
Visc @ 100°C	cSt	ASTM D445	15.4	11.9	12.6	12.1

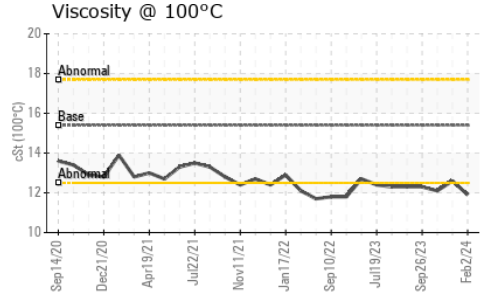
Fuel Dilution



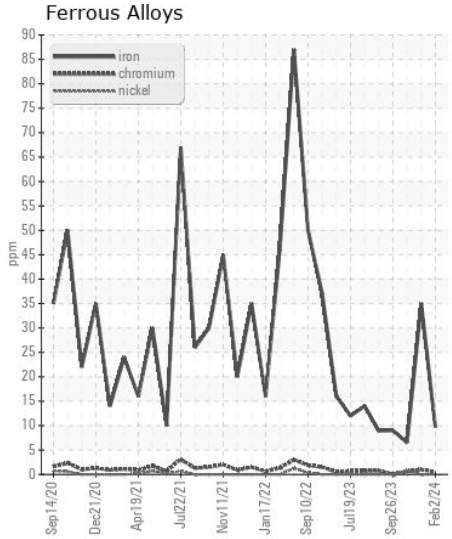
Base Number



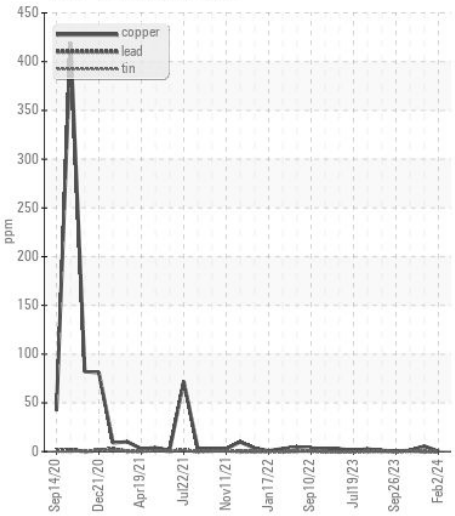
Viscosity @ 100°C



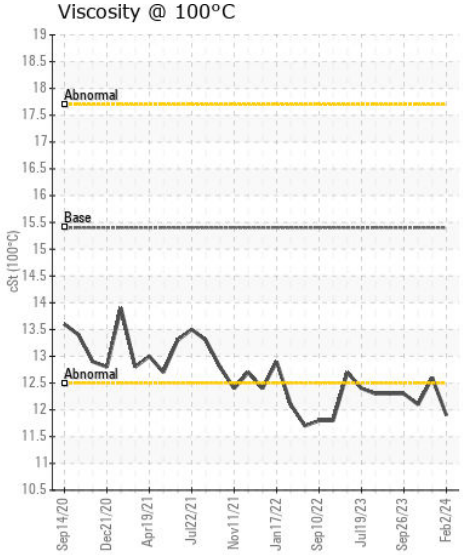
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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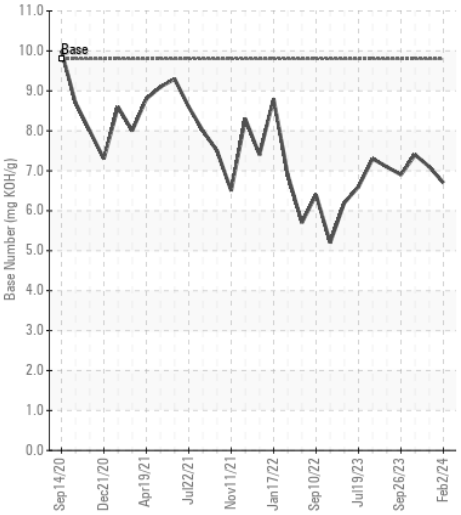

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109083
Lab Number : 06084482
Unique Number : 10871927
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 09 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 13 Feb 2024 - Wes Davis

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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