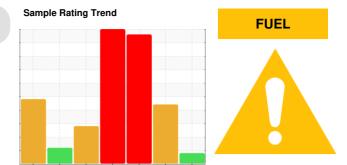


PROBLEM SUMMARY



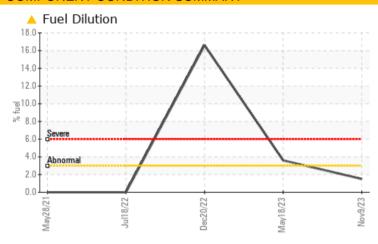


Machine Id 4602M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

PROBLEMATION	CTEST	RESULT	S			
Sample Status				MARGINAL	ABNORMAL	SEVERE
Fuel	%	ASTM D3524	>3.0	1.5	△ 3.6	16.6

Customer Id: GFL415 Sample No.: GFL0101584 Lab Number: 06005228 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

18 May 2023 Diag: Jonathan Hester

20 Dec 2022 Diag: Jonathan Hester

DIRT



We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil.



GI VCOI



We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels remain high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the

view report

CLVCOL



18 Jul 2022 Diag: Don Baldridge

presence of contaminants.

We advise that you check for the source of the coolant leak. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High glycol in the sample has limited the accuracy Total Base Number (TBN) value.All component wear rates are normal. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.





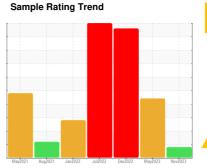
OIL ANALYSIS REPORT



Machine Id 4602M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

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

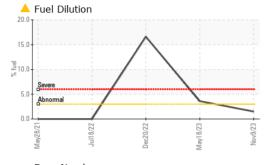
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info GFL0101584 GFL0081373 GFL0064022 Sample Date Client Info 99 Nov 2023 18 May 2023 20 Dec 2022 Machine Age hrs Client Info 8369 7238 6449 5390 Oil Changed Changed Changed Changed Sample Status MARGINAL ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Glycol WC Method NEG NEG NEG 0.10 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 18 97 20 Chromium ppm ASTM D5185m >20 <1 1 1 Nickel ppm ASTM D5185m >2 <1 1 1 1 Siliver ppm AS	14 01111 10 11 40 (· · · · · · · · · · · · · · · · · · ·	May2021	Aug2021 Jan2022	Jul2022 Dec2022 May2023	Nov2023	
Sample Date Client Info 09 Nov 2023 18 May 2023 20 Dec 2022 Machine Age hrs Client Info 8369 7238 6449 5390 Oil Age hrs Client Info Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Chang	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 8369 7238 6449 5990 Oil Age hrs Client Info 7238 6449 5990 Oil Changed <	Sample Number		Client Info		GFL0101584	GFL0081373	GFL0064022
Oil Age hrs Client Info 7238 6449 5390 Oil Changed Sample Status Client Info Changed Changed Changed Changed Changed Sample Status Changed MARGINAL Changed Changed Changed Changed Changed Changed Several Processing Sev	Sample Date		Client Info		09 Nov 2023	18 May 2023	20 Dec 2022
Oil Changed Sample Status Client Info Changed MARGINAL Changed MARGINAL Changed ABNORMAL Changed SEVERE CONT AMINATION method limil/base current history1 history2 WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >90 18 97 20 Chromium ppm ASTM D5185m >20 <1	Machine Age	hrs	Client Info		8369	7238	6449
CONTAMINATION method limit/base current history1 history2 Glycol WC Method NEG NEG 0.10 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 18 97 20 Chromium ppm ASTM D5185m >20 <1 6 2 Nickel ppm ASTM D5185m >20 <1 6 2 Silver ppm ASTM D5185m >20 <1 1 <1 <1 Silver ppm ASTM D5185m >20 2 41 <1 0 Silver ppm ASTM D5185m >20 2 412 3 Lead ppm ASTM D5185m >20 2 412 3 Copper ppm ASTM D5185m >330 1 18 2 Tin ppm ASTM D5185m <1 <1 3	Oil Age	hrs	Client Info		7238	6449	5390
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	Changed
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 18 97 20 Chromium ppm ASTM D5185m >20 <1	Sample Status				MARGINAL	ABNORMAL	SEVERE
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 18 97 20 Chromium ppm ASTM D5185m >20 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Iron	Glycol		WC Method		NEG	NEG	• 0.10
Chromium ppm ASTM D5185m >20 <1 6 2 Nickel ppm ASTM D5185m >2 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>90	18	97	20
Titanium	Chromium	ppm	ASTM D5185m	>20	<1	6	2
Silver	Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Aluminum ppm ASTM D5185m >20 2	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Lead ppm ASTM D5185m >40 1 25 <1 Copper ppm ASTM D5185m >330 1 18 2 Tin ppm ASTM D5185m >15 <1 3 1 Vanadium ppm ASTM D5185m <1 <1 <1 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 43 15 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 41 43 15 Barium ppm ASTM D5185m 0 41 93 71 Magnesium ppm ASTM D5185m 1010 914 903 774 Calcium ppm ASTM D5185m 1270 118 1033	Silver	ppm	ASTM D5185m	>2	<1	<1	0
Copper ppm ASTM D5185m >330 1 18 2 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>20	2	<u>12</u>	3
Tin ppm ASTM D5185m > 15 <1 3 1 Vanadium ppm ASTM D5185m	Lead	ppm	ASTM D5185m	>40	1	25	<1
Vanadium ppm ASTM D5185m <1 <1 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 43 15 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 41 2 <1 Manganese ppm ASTM D5185m 0 <1 2 <1 Magnesium ppm ASTM D5185m 1070 914 903 774 Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current <th< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>330</td><th>1</th><td>18</td><td>2</td></th<>	Copper	ppm	ASTM D5185m	>330	1	18	2
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 43 15 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 63 209 71 Manganese ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>15	<1	3	1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 43 15 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		<1	<1	0
Boron ppm ASTM D5185m 0 1 43 15 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 60 63 209 71 Manganese ppm ASTM D5185m 0 <1 2 <1 Magnesium ppm ASTM D5185m 1010 914 903 774 Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 ▲1.5 ▲3.6 ♠16.6 INFRA-RED method limit/base current history1 history2 Soot % % "ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/m "ASTM D7845 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Coxidation Abs/.1mm "ASTM D7415 >30 19.9 31.6 21.5	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 63 209 71 Manganese ppm ASTM D5185m 0 <1 2 <1 Magnesium ppm ASTM D5185m 1010 914 903 774 Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 <1 2 <1 Magnesium ppm ASTM D5185m 1010 914 903 774 Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 914 903 774 Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20 3 26 8 Fuel % ASTM D5185m >20 3 1.5 3.6 65 Soot % % *ASTM D7844	Molybdenum	ppm	ASTM D5185m	60	63	209	71
Calcium ppm ASTM D5185m 1070 1118 1033 845 Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Footium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4	Manganese	ppm	ASTM D5185m	0	<1	2	<1
Phosphorus ppm ASTM D5185m 1150 1023 868 985 Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m >20 3 26 8 Fotassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method	Magnesium	ppm	ASTM D5185m	1010	914	903	774
Zinc ppm ASTM D5185m 1270 1239 1267 1033 Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m 70 2499 665 Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method	Calcium	ppm	ASTM D5185m	1070	1118	1033	845
Sulfur ppm ASTM D5185m 2060 3305 3557 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m 70 2499 665 Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >2	Phosphorus	ppm	ASTM D5185m	1150	1023	868	985
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m 70 2499 665 Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3	Zinc	ppm	ASTM D5185m	1270	1239	1267	1033
Silicon ppm ASTM D5185m >25 4 48 15 Sodium ppm ASTM D5185m 70 42499 665 Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 1.5 3.6 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3	Sulfur	ppm	ASTM D5185m	2060	3305	3557	2712
Sodium ppm ASTM D5185m 70 ▲ 2499 ▲ 665 Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 ▲ 1.5 ▲ 3.6 ♠ 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 3 26 8 Fuel % ASTM D3524 >3.0 ▲ 1.5 ▲ 3.6 ♠ 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3	Silicon	ppm	ASTM D5185m	>25	4	<u>48</u>	15
Fuel % ASTM D3524 >3.0 ▲ 1.5 ▲ 3.6 ♠ 16.6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3	Sodium	ppm	ASTM D5185m		70	<u>^</u> 2499	<u>▲</u> 665
INFRA-RED	Potassium	ppm	ASTM D5185m	>20	3	26	8
Soot % % *ASTM D7844 > 6 0.5 1.8 0.4 Nitration Abs/cm *ASTM D7624 > 20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7415 > 30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 15.3 34.4 20.3	Fuel	%	ASTM D3524	>3.0	<u> </u>	▲ 3.6	16.6
Nitration Abs/cm *ASTM D7624 > 20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7615 > 30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 15.3 34.4 20.3	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 > 20 7.3 22.0 11.4 Sulfation Abs/.1mm *ASTM D7615 > 30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 15.3 34.4 20.3	Soot %	%	*ASTM D7844	>6	0.5	1.8	0.4
Sulfation Abs/.1mm *ASTM D7415 >30 19.9 31.6 21.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3		Abs/cm		>20			
Oxidation Abs/.1mm *ASTM D7414 >25 15.3 34.4 20.3							
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	34.4	20.3
	Base Number (BN)	mg KOH/g			8.8	9.5	10.7



OIL ANALYSIS REPORT



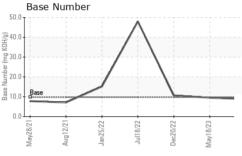
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

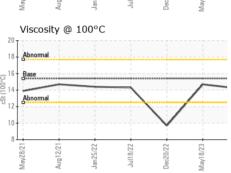
15.4

14.2

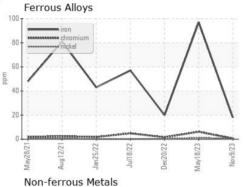
14.7

9.7



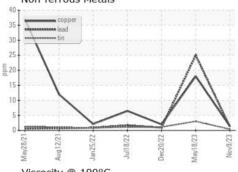


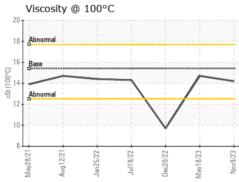
Visc @ 100°C **GRAPHS**

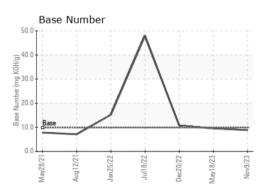


cSt

ASTM D445











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0101584 : 06005228 : 10738990

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 13 Nov 2023 : 15 Nov 2023

Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: PercentFuel)

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.

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)