

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# Machine Id 812090

#### Component Diesel Engine

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

#### DIAGNOSIS

#### 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

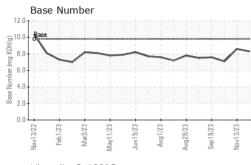
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

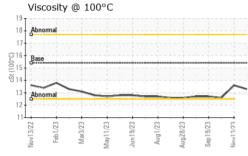
SAMPLE INFORMATION         method         limit/base         current         history1         history2           Sample Number         Client Info         18 Dec 2023         10 Avo 2023         10 Col: 2023           Sample Date         Client Info         18 Dec 2023         10 Avo 2023         10 Col: 2023           Oll Age         hrs         Client Info         154         544         428           Oll Age         hrs         Client Info         Not Changd         Not Changd         Not Changd           Sample Status         Client Info         Not Changd         Not Changd         Not Changd         Not Changd           CONTAMINATION         method         Imit/base         current         history1         history2           Fuel         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         1         1         1           Chromium         ppm         ASTM D5185m         >200         1         1         1           Iron         ppm         ASTM D5185m         >20         1         1         1           Roren         ppm         ASTM D5185m         >30         1         0         0	AL)		ov2022 Feb20	23 Mar2023 May2023 Ju	n2023 Aug2023 Aug2023 Sep2023	Nov2023	
Sample Date         Client Info         18 Dec 2023         13 Nov 2023         10 Oct 2023           Machine Age         hrs         Client Info         3075         2938         2822           Oil Age         hrs         Client Info         154         544         428           Oil Changed         Client Info         Not Changd         Not Mot Matud         Not Matud	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         3075         2938         2822           Oil Age         hrs         Client Info         154         544         428           Oil Changed         Client Info         Not Changd         Not Changd	Sample Number		Client Info		GFL0107249	GFL0097923	GFL0097902
Oil Age         Ins         Client Info         154         544         428           Oil Changed         Client Info         Not Changd         Not Changd         Not Changd         Not Changd           Sample Status         Imit Date         Imit Date         Not Changd         Not Changd         Not Changd           CONTAMINATION         method         Imit Date         current         Inistory2         Not Changd           Fuel         WC Method         >5         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Wear         MCM Method         >0.0         22         2         14           Chromium         ppm         ASTM D5185m         >100         22         2         14           Chromium         ppm         ASTM D5185m         >10         <1         1         1           Nickel         ppm         ASTM D5185m         >20         1         0         0           Copper         ppm         ASTM D5185m         >15         <1         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0 </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>18 Dec 2023</th> <th>13 Nov 2023</th> <th>10 Oct 2023</th>	Sample Date		Client Info		18 Dec 2023	13 Nov 2023	10 Oct 2023
Oli Changed Sample Status         Client Info         Not Changd NORMAL         Not Changd NORMAL         Not Changd NORMAL         Not Changd NORMAL           CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0	Machine Age	hrs	Client Info		3075	2938	2822
Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         NEG         NEG         NEG           Water         WC Method         >0.2         NEG         NEG         NEG           Chromium         ppm         ASTM D5165m         >20         1         1         1           Nickel         ppm         ASTM D5165m         >20         1         1         0           Aluminum         ppm         ASTM D5165m         >3         0         <1         0           Aluminum         ppm         ASTM D5165m         >30         9         <1         0         0           Copper         ppm         ASTM D5165m         >30         9         <1         0         0           Vandium         ppm         ASTM D5165m         >15         <1         1         0         0         0	Oil Age	hrs	Client Info		154	544	428
CONTAMINATION         method         limit/base         current         history2           Fuel         WC Method         >5         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >20         1         <1         0           Titanium         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >40         0         0         0           Copper         ppm         ASTM D5185m         >330         9         <1         0           Catadium         ppm         ASTM D5185m         1         0         0         0           Malydenum         ppm <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>Not Changd</th> <th>Not Changd</th>	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Fuel         WC Method         >5         <1.0	Sample Status				NORMAL	NORMAL	NORMAL
Water         WC Method         >0.2         NEG         NEG         NEG         NEG           Glycol         WC Method         Imit/base         current         historyl         historyl           Iron         ppm         ASTM D5185m         >100         22         2         14           Chromium         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >3         0         <1         0           Silver         ppm         ASTM D5185m         >30         <1         0         0           Aluminum         ppm         ASTM D5185m         >30         <1         0         0           Silver         ppm         ASTM D5185m         >30         9         <1         0         0           Auminum         ppm         ASTM D5185m         >300         9         <1         0         0           Cadmium         ppm         ASTM D5185m         >15         <1         <1         0         0           ADDITVES         method         Imit/base         current         historyl         historyl           Barium         ppm         ASTM D5185m	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol         WC Method         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >20         1         <1         0           Silver         ppm         ASTM D5185m         >3         0         <1         0           Aluminum         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >30         9         <1         0           Cadmium         ppm         ASTM D5185m         >330         9         <1         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           Cadmium         ppm         ASTM D5185m         0         7         7         4           Barium         ppm         ASTM D5185m         0         7         55         59 <t< th=""><th>Fuel</th><th></th><th>WC Method</th><th>&gt;5</th><th>&lt;1.0</th><th>&lt;1.0</th><th>&lt;1.0</th></t<>	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >100         22         2         14           Chromium         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         0         <1         0         0           Titanium         ppm         ASTM D5185m         0         <1         0         0           Silver         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >20         4         1         0           Cadmium         ppm         ASTM D5185m         >15         <1         <1         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           ASTM D5185m         0         7         7         4         1         0         0           Boron         ppm         ASTM D5185m         0         57         55	Water		WC Method	>0.2	NEG	NEG	NEG
Iron         ppm         ASTM D5185m         >100         22         2         14           Chromium         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         >3         0         <1         0           Silver         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >330         9         <1         0         0           Copper         ppm         ASTM D5185m         <1         <1         0         0         0           Cadmium         ppm         ASTM D5185m         0         7         7         4         0           Barium         ppm         ASTM D5185m         0         71         1         0         0           Magnesium         ppm         ASTM D5185m	Glycol		WC Method		NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >20         1         <1         1           Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         >3         0         <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         >3         0         <1	Iron	ppm	ASTM D5185m	>100		2	
Titanium         ppm         ASTM D5185m         0         <1	Chromium	ppm	ASTM D5185m	>20	1		1
Silver         ppm         ASTM D5185m         >3         0         <1	Nickel	ppm	ASTM D5185m	>4		0	
Aluminum         ppm         ASTM D5185m         >20         4         2         9           Lead         ppm         ASTM D5185m         >40         0         0         0           Copper         ppm         ASTM D5185m         >330         9         <1         0           Tin         ppm         ASTM D5185m         >15         <1         <1         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           ADDITIVES         method         limit/base         current         history1         history2           Barium         ppm         ASTM D5185m         0         7         7         4           Barium         ppm         ASTM D5185m         0         <1         <1         0           Magnesee         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1150         1030         984		ppm			0		
Lead         ppm         ASTM D5185m         >40         0         0         0           Copper         ppm         ASTM D5185m         >330         9         <1         0           Tin         ppm         ASTM D5185m         >15         <1         <1         0           Vanadium         ppm         ASTM D5185m         <1         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         <1         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         7         7         4           Barium         ppm         ASTM D5185m         0         0         0         0           Magnese         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1270         1227 <t< th=""><th>Silver</th><th>ppm</th><th></th><th></th><th></th><th></th><th></th></t<>	Silver	ppm					
Copper         ppm         ASTM D5185m         >330         9         <1	Aluminum	ppm	ASTM D5185m	>20	4	2	9
Tin         ppm         ASTM D5185m         >15         <1	Lead	ppm	ASTM D5185m	>40	0	0	0
Vanadium         ppm         ASTM D5185m         <1	Copper	ppm	ASTM D5185m	>330	9	<1	0
Cadmium         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>15	<1	<1	0
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         7         7         4           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         60         57         55         59           Marganese         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         cu	Vanadium	ppm	ASTM D5185m		<1	<1	0
Boron         ppm         ASTM D5185m         0         7         7         4           Barium         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         60         57         55         59           Manganese         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         7         3         22           Sodium         ppm         ASTM D5185m </th <th>Cadmium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>&lt;1</th> <th>0</th> <th>0</th>	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         60         57         55         59           Manganese         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1070         1010         986         1048           Zinc         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2      Soot %         %         *ASTM D7844	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         60         57         55         59           Manganese         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7745 <th>Boron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th>7</th> <th>7</th> <th>4</th>	Boron	ppm	ASTM D5185m	0	7	7	4
Maganese         ppm         ASTM D5185m         0         <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium         ppm         ASTM D5185m         1010         890         853         792           Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1150         1030         984         881           Zinc         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7624         >3         0.2         0.1         0.4           Nitration         Abs/.mm<*ASTM D7624 <td< th=""><th>Molybdenum</th><th>ppm</th><th>ASTM D5185m</th><th>60</th><th>57</th><th>55</th><th></th></td<>	Molybdenum	ppm	ASTM D5185m	60	57	55	
Calcium         ppm         ASTM D5185m         1070         1010         986         1048           Phosphorus         ppm         ASTM D5185m         1150         1030         984         881           Zinc         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         22         <1         4         3           Sodium         ppm         ASTM D5185m         22         <1         4         3           Potassium         ppm         ASTM D5185m         20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/.mm< *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.limm         *ASTM D7415         >30<	Manganese	ppm	ASTM D5185m	0	<1	<1	0
Phosphorus         ppm         ASTM D5185m         1150         1030         984         881           Zinc         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7624         >20         5.3         4.4         6.5           FLUID DEGRADATION         method         limit/base<	Magnesium	ppm	ASTM D5185m	1010	890	853	792
Zinc         ppm         ASTM D5185m         1270         1227         1182         1123           Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414 <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>1070</th> <th>1010</th> <th>986</th> <th>1048</th>	Calcium	ppm	ASTM D5185m	1070	1010	986	1048
Sulfur         ppm         ASTM D5185m         2060         3154         2955         2742           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >25         3         4         3           Potassium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7624         >20         5.3         4.4         6.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	Phosphorus	ppm	ASTM D5185m	1150	1030	984	881
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25343SodiumppmASTM D5185m2<14PotassiumppmASTM D5185m207322INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.10.4NitrationAbs/cm*ASTM D7624>205.34.46.5SulfationAbs/.1mm*ASTM D7415>3016.916.516.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2512.011.711.6	Zinc	ppm	ASTM D5185m	1270	1227	1182	1123
Silicon         ppm         ASTM D5185m         >25         3         4         3           Sodium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7624         >20         5.3         4.4         6.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	Sulfur	ppm	ASTM D5185m	2060	3154	2955	2742
Sodium         ppm         ASTM D5185m         2         <1	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         7         3         22           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6				>25			
INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6		ppm					4
Soot %         %         *ASTM D7844         >3         0.2         0.1         0.4           Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	Potassium	ppm	ASTM D5185m	>20	7	3	22
Nitration         Abs/cm         *ASTM D7624         >20         5.3         4.4         6.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         16.9         16.5         16.9           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	Soot %	%	*ASTM D7844	>3	0.2		
FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         12.0         11.7         11.6	Nitration	Abs/cm	*ASTM D7624	>20	5.3	4.4	6.5
Oxidation Abs/.1mm *ASTM D7414 >25 <b>12.0</b> 11.7 11.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	16.5	16.9
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN)         mg KOH/g         ASTM D2896         9.8         8.3         8.6         7.1							
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.6	7.1



## **OIL ANALYSIS REPORT**

VISUAL





	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
Aug.co/23 Sep.19/23 Nov13/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sep 1 Nov1	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
	Visc @ 100°C			15.4	13.3	13.6	12.6
~	GRAPHS						
	Ferrous Alloys						
	120 iron						
Aug 20/23 Sep 19/23 Nov13/23	100 - management chromium						
Sep	80 -						
5							
	60						
	40						
	20-	$\mathbf{i}$		1			
	1 TATAL CONTRACTOR OF TATA		$\sim$	$\checkmark$			
	Nov13/22 - Feb1/23 - Mar3/23 -	Jun19/23 - Aug1/23 -	Aug28/23 . Sep19/23 .	Nov13/23			
			Augá	Novi			
	Non-ferrous Meta	ls					
	copper						
	80 - sessesses lead						
a	60-						
c.	40						
	20						
				1			
	Nov13/22 Feb1/23 Mar3/23	Jun 19/23 Aug 1/23	Aug28/23 Sep19/23	Nov13/23			
	Nov1 Feb Mar	Jun1 Aug	Aug2 Sep1	Nov1			
	Viscosity @ 100°C	2			Base Number		
	19 T			12			
	18 - Abnormal			10	0.0 <b>Base</b>		
	17-			(B/H(			~
	0015 5 14			Base Number (mg KOH/g)	3.0	$\sim$	$\sim$
	은 15- #			per (n	6.0 <b>-</b>		
	<sup>3</sup> <sup>14</sup>			Num 4	ŧ.0 -		
	13 Abnormal		/				
	12			2	2.0		
		3 53	3 53			3 53	3 53
	Nov13/22 Feb1/23 Mar3/23	Jun19/23 - Aug1/23 -	Aug28/23 . Sep19/23	Nov13/23	Nov13/22 Feb1/23 Mar3/23	May11/23 - Jun19/23 - Aug1/23 -	Aug 28/23 Sep 1 9/23 Nov 1 3/23
	No Na	Ju Ai	Au Sel	No	No P	Ma Au	Au No
Laboratory	: WearCheck USA - 5				I3 GFL Env		10 - Stockbridge
Sample No.	: GFL0107249	Recieved	: 20	Dec 2023			Creek Parkway
Lab Number		Diagnose		Dec 2023		ç	Stockbridge, GA
Unique Number	: 10796513 : FLEET	Diagnostic	cian :We	s Davis		Contact: 10	US 30281 SHUA TINKER
Test Package	: FLEE I contact Customer Serv	rice at 1_20	0-237-1260	a			ver@gflenv.com
	contact Customer Serv					josnuatini	er@gtienv.com

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)

Certificate L2367

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