

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## Machine Id 920009

Fluid

Component **Diesel Engine** 

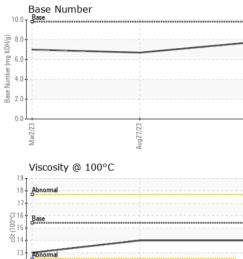
## PETRO CANADA DURON SHP 15W40 (--- GAL)

RecommendationSample NumberClient InfoGFL0067000GFL0066954GFL0066959Resample at the next service interval to monitor.Sample DateClient Info12 Dec 202327 Aug 202302 Mar 2023WearAll component wear rates are normal.Machine AgehrsClient Info891081716904Oil AgehrsClient Info006904Oil AgehrsClient Info006904Oil ChangedClient InfoChangedChangedChangedSample StatusImageNORMALNORMALNORMALFluid ConditionThere is suitableWC Method >3.0<1.0<1.0Huit weightWC Method >3.0<1.0<1.0<1.0				IN a	12023	Aug2023 Dec20		
Besample at the next service interval to monitor.         Simple Data:         Client Info         12 Dec 2023         27 Aug 2023         02 Mar 2023           Machine Age         hrs         Client Info         91 Age         6171         690 4           Anomponent wear rates are normal.         Oil Age         hrs         Client Info         0         0         604         Changed	DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Wear All component wear rates are normal. Contamination There is to indication of any contamination in roll.         Normal All changed         Client info         B10         0.17         6.044           The Dising indication of any contamination in roll.         Oil Changed         Client info         Changed         Client info         Changed         Client info         Changed         NORMAL         NORMAL <td< th=""><th>Recommendation</th><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>GFL0067000</th><th>GFL0066954</th><th>GFL0066959</th></td<>	Recommendation	Sample Number		Client Info		GFL0067000	GFL0066954	GFL0066959
All component wear rates are normal. Contamination There is no indication of any contamination in the ol. Pluel Condition The IN result indicates that there is suitable for further service. VC Method Same Status UC Metho	Resample at the next service interval to monitor.	Sample Date		Client Info		12 Dec 2023	27 Aug 2023	02 Mar 2023
Containination         Clicknaged         Client Info         Changed         Changed         NoRMAL	Wear	Machine Age	hrs	Client Info		8910	8171	6904
Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           Od.         CONTAMINATION         method         limitbase         current         history1         history1           The Breault indicates that there is suitable all is suitable for further service.         NC Method         3.0         <1.0         <1.0         <1.0         <1.0           Wate         WO Method         0.2         NEG         NEG         NEG         NEG           Sample Status         monthod         limitbase         current         history1         history1           Mainer Service.         WEAR METALS         method         limitbase         current         history1           Iron         ppm         ASTIL0585m         >2         0         0         0           Nicel         ppm         ASTIL0585m         >2         1         0         0           Silver         ppm         ASTIL0585m         >2         1         1         1         2           Vanadium         ppm         ASTIL0585m         1         1         1         2           Vanadium         ppm         ASTIL0585m         1         1         1         1           Va	All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	6904
Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           Fuil Condition         The Seauti indicates that there is suitable distainty remaining in the oil. The condition of the oil is suitable for further service.         CONTAMINATION         method         immitoda         current         history2         refl           Situatinity remaining in the oil. The condition of the oil is suitable for further service.         WC Method         VC Method         VC Method         NEG         NEG         NEG           Version         ppm         MC Method         immitoda         NEG         NEG         NEG         NEG           Version         ppm         MC Method         immitoda         NEG         immitoda         NEG         Immitoda         NEG         NEG         NEG         NEG         NEG         NEG         NEG	Contamination	Oil Changed		Client Info		Changed	Changed	Changed
OIL       CONTAMINATION       method       limit/basis       current       history1       history2         Fuel       W0 Method       >3.0       <1.0       <1.0       <1.0       <1.0         Bit is ultit indicates that there is suitable alkalinity emaning in the oil. The condition of the oil is suitable for further service.       WC Method       >3.0       <1.0       <1.0       <1.0       <1.0       NEG       NEG         Water       W0 Method       >0.2       NEG       NEG       NEG       NEG       NEG         Giyool       W0 Method       >0.2       NEG       NEG       NEG       NEG         WEAR METALS       method       limit/basis       current       History1       History2         Iron       ppm       ASTM 0515m       >2.0       1.0       1.0       1.0         Nicker       ppm       ASTM 0515m       >2.0       1.0       0.0       0.0         Aluminum       ppm       ASTM 0515m       >2.0       1.0		Sample Status				NORMAL	NORMAL	NORMAL
Fluid Condition         Fuel         WC Method         >3.0         <1.0	oil.	CONTAMINATIO		method	limit/base	current	history1	history?
Water       WC Method       >0.2       NEG       NEG       NEG         alkalnihy remaining in the oil. The condition of the oil is suitable for further service.       Water       WC Method       >0.2       NEG       NEG       NEG         WEAR METALS       method       4mit/base       current       history1       history1       history2         Iron       ppm       ASTM05185n       >20       <1       <1       1         Nickel       ppm       ASTM05185n       >20       <1       <1       1         Nickel       ppm       ASTM05185n       >20       2       1       8         Qiver       ppm       ASTM05185n       >20       2       4       6         Lead       ppm       ASTM05185n       >40       0       0       4         Copper       ppm       ASTM05185n       >1       1       16       1         Tin       ppm       ASTM05185n       >1       1       16       1       16         ADDITIVES       method       imitobase       current       history1       history1       history2         Vanadium       ppm       ASTM05185n       0       <1       1       16       1	Fluid Condition							
Old is suitable for further service.         Glycol         WC Method         NEG         NEG         NEG           VEAR METALS         method         limibase         current         history1         history2           Iron         ppm         ASTM 0515%         >20         1         1         1           Nickel         ppm         ASTM 0515%         >20         2         1         8           Titanum         ppm         ASTM 0515%         >20         2         1         0         0           Silver         ppm         ASTM 0515%         >20         2         4         6         1           Qanadium         ppm         ASTM 0515%         >20         2         4         6         1           Copper         ppm         ASTM 0515%         >20         2         4         6           Lead         ppm         ASTM 0515%         >20         2         4         6           Copper         ppm         ASTM 0515%         >40         0         0         0           Cadminum         ppm         ASTM 0515%         0         8         8         20           Barium         ppm         ASTM 0515%         0	The BN result indicates that there is suitable							
WEAR METALS         method         limitbase         current         History1         history2           Iron         ppm         ASTM 0585m         >120         10         16         33           Chromium         ppm         ASTM 0585m         >52         2         1         41         1           Nickel         ppm         ASTM 0585m         >2         0         0         0           Silver         ppm         ASTM 0585m         >2         2         1         0         0           Aluminum         ppm         ASTM 0585m         >20         2         4         6           Lead         ppm         ASTM 0585m         >300         <1	alkalinity remaining in the oil. The condition of the				>0.2			
Iron       ppm       ASTM D5185m       >12.0       10       16       33         Chromium       ppm       ASTM D5185m       >2.0       -1       1       1         Nickel       ppm       ASTM D5185m       >2.0       0       0       0         Silver       ppm       ASTM D5185m       >2.2       -1       0       0         Silver       ppm       ASTM D5185m       >2.2       -1       0       0         Auminum       ppm       ASTM D5185m       >2.2       -1       0       0         Lead       ppm       ASTM D5185m       >2.2       -1       1       16         Copper       ppm       ASTM D5185m       >4.0       0       0       0         Vanadium       ppm       ASTM D5185m       >1       1       16       15         Silver       ppm       ASTM D5185m       1.5       1       1       16         Silver       ppm       ASTM D5185m       >1       1       16       15         Vanadium       ppm       ASTM D5185m       0       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0 <th>oil is suitable for further service.</th> <th>Glycol</th> <th></th> <th>WC Method</th> <th></th> <th>NEG</th> <th>NEG</th> <th>NEG</th>	oil is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
Chromium       ppm       ASTIL D5186m       >20       <1       <1       1         Nickel       ppm       ASTIL D5186m       >5       2       1       8         Titanium       ppm       ASTIL D5186m       >2       0       0       0         Silver       ppm       ASTIL D5186m       >20       2       4       6         Lead       ppm       ASTIL D5186m       >40       0       0       16         Copper       ppm       ASTIL D5186m       >40       0       0       16         Cadmium       ppm       ASTIL D5186m       >1       1       16       1       16         Tin       ppm       ASTIL D5186m       >15       1       1       20       0         Cadmium       ppm       ASTIL D5186m       0       8       8       20       0         Boron       ppm       ASTIL D5186m       0       8       8       20       76         Calcium       ppm       ASTIL D5186m       0       8       8       20       76         Calcium       ppm       ASTIL D5186m       100       120       74       1112       1242       1242		WEAR METALS	\$	method	limit/base	current	history1	history2
Chromium       ppm       ASTU D5185m       >20       <1       <1         Nickel       ppm       ASTU D5185m       >2       0       0       0         Silver       ppm       ASTU D5185m       >2       0       0       0         Silver       ppm       ASTU D5185m       >2       2       4       0       0         Auminum       ppm       ASTU D5185m       >40       0       0       -1       0       0       -1       0       0       -1       0       0       -1       0       0       -1       0       0       0       -1       0 <td< td=""><th></th><th>Iron</th><td>ppm</td><td>ASTM D5185m</td><td>&gt;120</td><th>10</th><td>16</td><td>33</td></td<>		Iron	ppm	ASTM D5185m	>120	10	16	33
Nickel       ppm       ASTM 0518sm       s-5       2       1       8         Titanium       ppm       ASTM 0518sm       s-2       0       0       0         Silver       ppm       ASTM 0518sm       s-20       2       4       0       0         Aluminum       ppm       ASTM 0518sm       s-20       2       4       6         Lead       ppm       ASTM 0518sm       s-30       0       0       1       2         Copper       ppm       ASTM 0518sm       s-40       0       0       0       0         Titanium       ppm       ASTM 0518sm       s-15       1       1       2       0         Vanadium       ppm       ASTM 0518sm       s-15       1       1       2       0         Cadmium       ppm       ASTM 0518sm       s       current       history1       history2         Boron       ppm       ASTM 0518sm       0       0       0       0       0       0       0       0       0       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1						<1	<1	1
Titanium       ppm       ASTM D5185m       >2       0       0       0         Silver       pm       ASTM D5185m       >20       2       4       0       0         Aluminium       pm       ASTM D5185m       >20       2       4       0       0         Lead       ppm       ASTM D5185m       >330       <1						2	1	8
Silver       ppm       ASTM 05185n       >20       21       4       6         Auminum       ppm       ASTM 05185n       >20       2       4       6         Lead       ppm       ASTM 05185n       >300       <1       1       1         Copper       ppm       ASTM 05185n       >15       1       1       2         Vanadium       ppm       ASTM 05185n       >15       1       1       2         Cadmium       ppm       ASTM 05185n       >15       1       1       2         Boron       ppm       ASTM 05185n       0       6       0       0         Barium       ppm       ASTM 05185n       0       0       0       0         Mayaanese       ppm       ASTM 05185n       0       0       0       0         Mayaanese       ppm       ASTM 05185n       1010       922       9900       776         Calcium       ppm       ASTM 05185n       1010       900       874       2112       1112         Suffar       post       ASTM 05185n       1010       922       9900       776         Calcium       ppm       ASTM 05185n       1010				ASTM D5185m	>2	0	0	0
Aluminum       ppm       ASTM D5165m       >20       2       4       6         Lead       ppm       ASTM D5165m       >-40       0       0       <1         Copper       ppm       ASTM D5165m       >3300       <1       1       16         Tin       ppm       ASTM D5165m       >10       1       2       2         Vanadium       ppm       ASTM D5165m       -15       1       10       2         Vanadium       ppm       ASTM D5165m       -1       1       2         Vanadium       ppm       ASTM D5165m       -1       1       2         Cadmium       ppm       ASTM D5165m       0       -1       1       2         ADDTTVES       method       imit/base       current       history1       history2         Barium       ppm       ASTM D5165m       0       -1       4       4         Magnensium       ppm       ASTM D5165m       0       -1       4       1         Marganesium       ppm       ASTM D5165m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5165m       1257       1291       1112						<1		0
Lead       ppm       ASTM D5185m       >440       0       0       <1         Copper       ppm       ASTM D5185m       >330       <1       1       16         Tin       ppm       ASTM D5185m       >1       1       2         Vanadium       ppm       ASTM D5185m       >1       1       2         Vanadium       ppm       ASTM D5185m       <1       0       0         Cadmium       ppm       ASTM D5185m       0       8       8       20         Boron       ppm       ASTM D5185m       0       8       8       20         Barium       ppm       ASTM D5185m       0       8       8       20         Manganese       ppm       ASTM D5185m       0       0       0       0         Magnesum       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1017       1009       874       2124         Phosphorus       ppm       ASTM D5185m       1270       1291       1112         Sulfur       ppm       ASTM D5185m       260       2874       3335       2592         Sili				ASTM D5185m	>20		4	6
Copper         ppm         ASTM D5185m         >330         <1         1         16           Tin         ppm         ASTM D5185m         >15         1         1         2           Vanadium         ppm         ASTM D5185m         <1								
Tin       ppm       ASTM D5185m       >15       1       1       2         Vanadium       ppm       ASTM D5185m       -<1       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       8       8       20         Barium       ppm       ASTM D5185m       0       0       0       0         Molybdenum       ppm       ASTM D5185m       0       58       65       71         Manganese       ppm       ASTM D5185m       1010       922       99.0       776         Calcium       ppm       ASTM D5185m       1010       922       99.0       776         Calcium       ppm       ASTM D5185m       1010       922       99.0       776         Calcium       ppm       ASTM D5185m       1010       1017       1009       874         Zinc       ppm       ASTM D5185m       150       1017       1291       1112         Suffur       ppm       ASTM D5185m       260       2874								
Vanadium         ppm         ASTM D5185m         <1							1	
Cadmium       ppm       ASTM D5185m       0       0       0         ADDITIVES       method       limit/base       current       history1         Boron       ppm       ASTM D5185m       0       8       8       20         Barium       ppm       ASTM D5185m       0       0       0       0         Molybdenum       ppm       ASTM D5185m       0       <1       <1       <1         Magnese       ppm       ASTM D5185m       0       <1       <1       <1         Magnesium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1070       1046       1192       1242         Sulfur       ppm       ASTM D5185m       1070       1257       1291       1112         Sulfur       ppm       ASTM D5185m       >25       4       4       6         Sodium       ppm       ASTM D5185m       >20       2       1								
Boron       ppm       ASTM D5185m       0       8       8       20         Barium       ppm       ASTM D5185m       0       0       0       0       0         Molybdenum       ppm       ASTM D5185m       60       58       65.5       71         Manganese       ppm       ASTM D5185m       0								
Barium       ppm       ASTM D5185m       0       0       0       0         Molybdenum       ppm       ASTM D5185m       60       58       65       71         Manganese       ppm       ASTM D5185m       0       <1       <1       <1         Magnesium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       260       2874       3335       2592         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       <1       10         INFRA-RED       method       limit/base       current       history1       history2         Soot %       %       'ASTM		ADDITIVES		method	limit/base	current	history1	history2
Barium       ppm       ASTM D5185m       0       0       0       0         Molybdenum       ppm       ASTM D5185m       60       58       65       71         Manganese       ppm       ASTM D5185m       0       <1       <1       <1         Magnesium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1010       922       990       874         Phosphorus       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       1270       1287       3335       2592         CONTAMINANTS       method       imit/base       current       history1       history2         Sulfur       ppm       ASTM D5185m       >20       2       31       0         Sodium       ppm       ASTM D5185m       >20       2       31       0         Notassium       ppm       ASTM D5185m       >20       2       31       0         Nitration       Abs/mm       'ASTM		Boron	ppm	ASTM D5185m	0	8	8	20
Motlybdenum       ppm       ASTM D5185m       60       58       65       71         Manganese       ppm       ASTM D5185m       0       <1       <1       <1         Magnesium       ppm       ASTM D5185m       1010       922       9900       776         Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1150       1017       1009       874         Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2600       2874       3335       2592         CONTAMINANTS       method       imit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       1       1         Sodium       ppm       ASTM D5185m       >20       2       1       10         INFRA-RED       method       imit/base       current       history1       history2         Soot %       %       YSTM D7185m       >30       21.6       0.8       0.9         Nitration       Abs/m       X				ASTM D5185m	0			0
Manganesse       ppm       ASTM D5185m       0       <1       <1       <1         Magnesium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1150       1017       1009       874         Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2060       2874       3335       2592         CONTAMINANTS       method       imit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       <1						58	65	71
Magnesium       ppm       ASTM D5185m       1010       922       990       776         Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1150       1017       1009       874         Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2060       2874       3335       2592         CONTAMINANTS       method       imit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       4       4       6         Sodium       ppm       ASTM D5185m       >20       2       <1       10         INFRA-RED       ppm       ASTM D5185m       >20       2       <1       10         INFRA-RED       method       imit/base       current       history1       history2         Soot %       %       *ASTM D7844       >4       0.6       0.8       0.9         Nitration       Abs/cm       *ASTM D7624       >20       9.0       9.3       10.5         Sulfation       Abs/lm								<1
Calcium       ppm       ASTM D5185m       1070       1046       1192       1242         Phosphorus       ppm       ASTM D5185m       1150       1017       1009       874         Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2060       2874       3335       2592         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       4       4       6         Sodium       ppm       ASTM D5185m       >20       2       <1       10         INFRA-RED       method       limit/base       current       history1       history2         Soot %       %       *ASTM D7844       >4       0.6       0.8       0.9         Nitration       Abs/rm       *ASTM D7824       >20       9.0       9.3       10.5         Sulfation       Abs/rm       *ASTM D7815       >30       21.6       21.8       22.5         FLUID DEGRADATION       method       limit/base       current       history1       history2         Oxidation       A						922	990	776
Phosphorus       ppm       ASTM D5185m       1150       1017       1009       874         Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2060       2874       3335       2592         CONTAMINANTY       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       4       4       6         Sodium       ppm       ASTM D5185m       >26       4       6       3         Potassium       ppm       ASTM D5185m       >20       2       <10       10         INFRA-RED       method       limit/base       current       history1       history2         Soot %       %       *ASTM D5185m       >20       2       <1       10         INFRA-RED       method       limit/base       current       history1       history2         Soot %       %       *ASTM D7624       >20       9.0       9.3       10.5         Sulfation       Abs/Im       *ASTM D7145       >30       21.6       21.8       22.5         FLUID DEGRAUTION       Method<							1192	1242
Zinc       ppm       ASTM D5185m       1270       1257       1291       1112         Sulfur       ppm       ASTM D5185m       2060       2874       3335       2592         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       4       4       6         Sodium       ppm       ASTM D5185m       >25       4       5       3         Potassium       ppm       ASTM D5185m       >20       2       <1       10         INFRA-RED       method       limit/base       current       history1       history2         Soot %       %       *ASTM D7844       >4       0.6       0.8       0.9         Nitration       Abs/cm       *ASTM D7624       >20       9.0       9.3       10.5         Sulfation       Abs/limm       *ASTM D7445       >30       21.6       21.8       22.5         FLUID DEGRADATION       method       limit/base       current       history1       history2         Oxidation       Abs/limm       *ASTM D7414       >25       17.7       18.2       18.2						1017	1009	874
SulfurppmASTM D5185m2060287433352592CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25446SodiumppmASTM D5185m>20453PotassiumppmASTM D5185m>202<1110INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.60.80.9NitrationAbs/cm*ASTM D7624>209.09.310.5SulfationAbs/timm*ASTM D7415>3021.621.822.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/timm*ASTM D7414>2517.718.218.2			IF IF					
SiliconppmASTM D5185m>25446SodiumppmASTM D5185mPotassiumPpmASTM D5185m>202<1								
Sodium         ppm         ASTM D5185m         4         5         3           Potassium         ppm         ASTM D5185m         >20         2         <1         10           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >4         0.6         0.8         0.9           Nitration         Abs/cm         *ASTM D7624         >20         9.0         9.3         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.6         21.8         22.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2		CONTAMINANT	ſS	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         4         5         3           Potassium         ppm         ASTM D5185m         >20         2         <1         10           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >4         0.6         0.8         0.9           Nitration         Abs/cm         *ASTM D7624         >20         9.0         9.3         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.6         21.8         22.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2		Silicon	ppm	ASTM D5185m	>25	4	4	6
PotassiumppmASTM D5185m>202<110INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.60.80.9NitrationAbs/cm*ASTM D7624>209.09.310.5SulfationAbs/.1mm*ASTM D7415>3021.621.822.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.718.218.2		- ···						
Soot %         %         *ASTM D7844         >4         0.6         0.8         0.9           Nitration         Abs/cm         *ASTM D7624         >20         9.0         9.3         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.6         21.8         22.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2		Potassium	ppm	ASTM D5185m	>20	2	<1	10
Soot %         %         *ASTM D7844         >4         0.6         0.8         0.9           Nitration         Abs/cm         *ASTM D7624         >20         9.0         9.3         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.6         21.8         22.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2		INFRA-RED		method	limit/base	current	history1	history2
Nitration         Abs/cm         *ASTM D7624         >20         9.0         9.3         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.6         21.8         22.5           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2			%					· · · · · ·
SulfationAbs/.1mm*ASTM D7415>30 <b>21.6</b> 21.822.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>25 <b>17.7</b> 18.218.2								
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.718.218.2								
Oxidation         Abs/.1mm         *ASTM D7414         >25         17.7         18.2         18.2								
		FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.7         6.7         7.0		Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.2	18.2
		Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	6.7	7.0



12 11 Mar2/23

## **OIL ANALYSIS REPORT**



Aug27/23

	VISUAL		method			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
		scalar	*Visual	NORML	NORML	NORML	NORML
	Appearance						
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG NEG	NEG	NEG
	Free Water	scalar	*Visual	limit/haaa		NEG	NEG
Ι,	FLUID PROP	cSt	method ASTM D445	limit/base 15.4	current 14.0	history1 14.0	history2 13.0
	GRAPHS	COL	A0110 D440	15.4	14.0	14.0	13.0
	Ferrous Alloys						
35	iron						
30	nickel						
25							
면 20 면 15	·						
<sup>-</sup> 15							
10	)						
5							
0		Name of Concession of Concessi					
	Mar2/23	Aug27/23		Dec12/23			
	2	B					
	2	Aı		Dec			
	Non-ferrous Met			Dec			
16	Non-ferrous Met			Dec			
14	Non-ferrous Met			Dec			
14 12	Non-ferrous Met						
14 12 10	Non-ferrous Met						
14 12 10 Edd 8	Non-ferrous Met			Dec			
14 12 10	Non-ferrous Met			Det			
14 12 10 Edd 8	Non-ferrous Met			Det			
14 12 10 Edd 8	Non-ferrous Met			Dec			
14 12 10 Edd 8	Non-ferrous Met	als					
14 12 10 Edd 8	Non-ferrous Met			Jeci 2/23			
14 12 10 Edd 8	Non-ferrous Met	als		2/23			
14 12 10 Edd 8	Non-ferrous Met	als		Dect 2/23	Base Number	r	
14 12 10 편, 8 6 4 2 0	Non-ferrous Met	als		Dect 2/23	Base Number	r	
14 12 10 <u>E</u> 8 6 4 2 0	Non-ferrous Met	als		Deci 223	- Base	r	
14 12 10 <u>6</u> 4 2 0 19 18 17	Non-ferrous Met	als		Deci 223	Base		
14 12 10 <u>6</u> 4 2 0 19 18 17	Non-ferrous Met	als		Deci 223	Base	r 	
14 12 10 토 8 6 4 4 2 0 0 19 18	Non-ferrous Met	als		Deci 223	Base	r	
14 12 10 <u>6</u> 4 2 0 19 18 17	Non-ferrous Met	als		10.0 90.0 0.0 90.0 0.0 10.0 0.	Base.	r	
14 12 10 10 10 14 2 0 0 19 18 17 18 17 16 16 15 15 15 14	Non-ferrous Met	als		0.01 Dec12/23	Base.	r	
14 12 10 10 10 10 19 19 18 17 (0,001)15 15 14 13	Non-ferrous Meta Lead	als		0.01 000 000 000 000 000 000 000 000 000	Base.		
144 122 100 10 10 10 10 10 10 10 10 10 10 10 10	Non-ferrous Met	als c		0.01 000 000 000 000 000 000 000 000 000	Base.		
144 122 100 10 10 10 10 10 10 10 10 10 10 10 10	Non-ferrous Meta Lead	als		10.0 (0,MOX build a set of the se		Aug27/23	
144 12 10 6 8 4 4 2 0 0 19 18 17 18 17 16 16 15 19 19 18 17 17 18 11 11 11	Non-ferrous Met	als c c c c	son Ave Ca	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base	Aug217/23	6 - Greenbav
144 12 10 8 8 6 4 4 2 0 0 19 18 17 18 17 18 17 19 18 17 18 17 19 18 17 19 18 17 19 18 18 17 19 18 18 19 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Non-ferrous Met	als c c c c	d : 03 .	EC72[39]	Base	EZIZZBBY Wironmental - 910	ounty Trunk
144 122 10 8 8 6 4 4 2 0 0 19 18 17 18 17 18 17 19 18 17 18 17 19 18 17 19 18 18 17 19 18 18 17 19 18 18 19 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Non-ferrous Met	c c 501 Madii Recieved Diagnos	d : 03 . ed : 04 .	EC72[130] EC72[130]	Base	EZIZZBBY Wironmental - 910	ounty Trunk DePere,
144 12 10 8 8 6 4 4 2 0 0 19 18 17 18 17 18 17 19 18 17 19 18 17 19 18 17 19 18 18 17 19 19 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Non-ferrous Met	c 501 Madia Recieved	d : 03 . ed : 04 .	EC72[39]	Base	ezizeby wironmental - 910 1799 C	ounty Trunk DePere, US 541
144 12 10 8 8 6 4 4 2 0 0 19 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 17 18 18 17 19 18 18 19 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Non-ferrous Met	als EZUZD <sup>DINY</sup> C 501 Madii Recieved Diagnos	d : 03 ed : 04 tician : We	E727133 E72713 E72712 E72713 E72712 E72713 E72712	Base	ezizebby wironmental - 910 1799 C Contac	ounty Trunk DePere,



Report Id: GFL916 [WUSCAR] 06049759 (Generated: 01/04/2024 10:29:51) Rev: 1