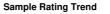
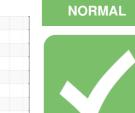


## **OIL ANALYSIS REPORT**





Area **166** Machine Id **11380** 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.

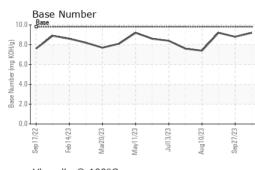
## Fluid Condition

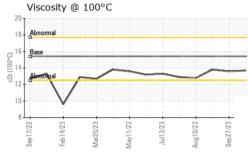
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Nickel     ppm     ASTM D5185m     >2     0     0     <1	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date     Info     02 Nov 2023     27 Sep 2023     07 Sep 2023       Machine Age     hrs     Client Info     45498     2152     39950       Oil Age     hrs     Client Info     600     Not Changed     NorRMAL	Sample Number		Client Info		GFL0091254	GFL0091224	GFL0087881
Machine Age     hrs     Client Info     45498     2152     39950       Oil Age     irrs     Client Info     600     1200     600       Oil Changed     Client Info     NoRMAL     NORMAL     NORMAL     NORMAL       Sample Status     Imit/base     current     Inistory1     History2       Fuel     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     >5     <1.0     <1.0     <1.0       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >110     4     11     8       Chromium     ppm     ASTM D5185m     >2     0     <1     <1       Nickel     ppm     ASTM D5185m     >2     0     <1     <1     <1     <1     <1     0     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     1     <1>			Client Info		02 Nov 2023	27 Sep 2023	07 Sep 2023
Olt Age     Ins     Client Info     600     1200     600       Olt Changed     Client Info     Not Changed     Not Changed     Not Changed       Sample Status     Imit Method     Imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     STM D5185m     >110     4     11     8       Chromium     ppm     ASTM D5185m     >2     0     <1     <1       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Aluminum     ppm     ASTM D5185m     >2     0     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1		hrs					
Oli Changed Sample StatusClient InfoNot Changd NORMALNot Changed NORMALNot Change NormalNot Change Normal	0						
Sample Status     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >110     4     11     8       Chromium     ppm     ASTM D5185m     >2     0     0     <1       Nickel     ppm     ASTM D5185m     >2     0     0     <1       Itanium     ppm     ASTM D5185m     >2     0     0     <1       Gopper     ppm     ASTM D5185m     >45     1     0     0     <1       Copper     ppm     ASTM D5185m     0     0     <1     0     2       Barium     ppm     ASTM D5185m     0     0     0     2	-						
CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     <1.0     <1.0       Glycol     WC Method     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >2     0     <1     <1       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Silver     ppm     ASTM D5185m     >2     0     <1     <1       Aluminum     ppm     ASTM D5185m     >2     0     <1     <1       Aluminum     ppm     ASTM D5185m     >25     2     6     5       Lead     ppm     ASTM D5185m     >45     <1     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     <1       ADDITVES     method     imit/base     current     history1     history2       Barium	-				•	U	-
Fuel     WC Method     >5     <1.0	· · ·		mathad	limit/baca			
Glycol     WC Method     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >110     4     11     8       Chromium     ppm     ASTM D5185m     >2     0     0     <1       Nickel     ppm     ASTM D5185m     >2     0     0     <1       Aluminum     ppm     ASTM D5185m     >2     0     0     <1       Aluminum     ppm     ASTM D5185m     >25     2     6     5       Lead     ppm     ASTM D5185m     >45     <1     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0     2       Baron     ppm     ASTM D5185m     0     0     2     6       Magnesium     ppm     ASTM D5185m     0     0     2     6							
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >110     4     11     8       Chromium     ppm     ASTM 05185m     >4     0     <1     <1       Nickel     ppm     ASTM 05185m     >2     0     0     <1       Titanium     ppm     ASTM 05185m     >2     0     0     <1       Aluminum     ppm     ASTM 05185m     >2     0     0     <1       Lead     ppm     ASTM 05185m     >2     0     0     0       Copper     ppm     ASTM 05185m     >2     1     0     0       Cadmium     ppm     ASTM 05185m     0     0     0     <1       Cadmium     ppm     ASTM 05185m     0     <1     0     2       Boron     ppm     ASTM 05185m     0     <1     <1     1     1       Molybdenum     ppm     ASTM 05185m     0     6 <td< th=""><th></th><th></th><th></th><th>&gt;0</th><th></th><th></th><th></th></td<>				>0			
Iron     ppm     ASTM D5185m     >110     4     11     8       Chromium     ppm     ASTM D5185m     >4     0     <1	Giycol		WC Method		NEG	NEG	NEG
Chromium     ppm     ASTM D5185m     >4     0     <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >2     0     0     <1	Iron	ppm	ASTM D5185m	>110	4	11	8
Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >2     0     0     <1       Aluminum     ppm     ASTM D5185m     >25     2     6     5       Lead     ppm     ASTM D5185m     >45     <1     0     0       Copper     ppm     ASTM D5185m     >85     1     2     1       Tin     ppm     ASTM D5185m     >85     1     2     1       Cadmium     ppm     ASTM D5185m     0     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0     2       Boron     ppm     ASTM D5185m     0     0     0     2       Molybdenum     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     0     <1     <1<     <1       Molybdenum     ppm     ASTM D5185m     1010     966     901	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Silver     ppm     ASTM D5185m     >2     0     0     <1	Nickel	ppm	ASTM D5185m	>2	0	0	<1
Aluminum     ppm     ASTM D5185m     >25     2     6     5       Lead     ppm     ASTM D5185m     >45     <1     0     0       Copper     ppm     ASTM D5185m     >45     1     2     1       Tin     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     <1     0       Cadmium     ppm     ASTM D5185m     0     <1     0     <1       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     0     2       Molybdenum     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     0     <1     <1     <1     <1       Phosphorus     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1270 <td< th=""><th>Titanium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></td<>	Titanium	ppm	ASTM D5185m		0	0	0
Lead     ppm     ASTM D5185m     >45     <1	Silver	ppm	ASTM D5185m	>2	0	0	
Copper     ppm     ASTM D5185m     >85     1     2     1       Tin     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     <1       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     0     2       Barium     ppm     ASTM D5185m     0     <1     0     2       Molybdenum     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     0     <1     <1     <1     <1       Sulfur     ppm     ASTM D5185m     1010     966     901     897     <1050       Phosphorus     ppm     ASTM D5185m     1070     1029     996     1050       Sulfur     ppm     ASTM D5185m     2060     3120	Aluminum	ppm	ASTM D5185m	>25	2	6	5
Tin     ppm     ASTM D5185m     >4     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     <1	Lead	ppm	ASTM D5185m	>45	<1	0	0
Vanadium     ppm     ASTM D5185m     0     0     <1	Copper	ppm	ASTM D5185m	>85	1	2	1
Cadmium     ppm     ASTM D5185m     0     0     <1	Tin	ppm	ASTM D5185m	>4	0	0	0
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     0     2       Barium     ppm     ASTM D5185m     0     0     0     2       Molybdenum     ppm     ASTM D5185m     60     60     62     60       Magnesium     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     1010     966     901     897       Calcium     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20	Vanadium	ppm	ASTM D5185m		0	0	<1
Boron     ppm     ASTM D5185m     0     <1	Cadmium	ppm	ASTM D5185m		0	0	<1
Barium     ppm     ASTM D5185m     0     0     0     2       Molybdenum     ppm     ASTM D5185m     60     60     62     60       Manganese     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     1010     966     9011     897       Calcium     ppm     ASTM D5185m     1010     966     9011     897       Calcium     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     60     60     62     60       Manganese     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     1010     966     901     897       Calcium     ppm     ASTM D5185m     1010     966     901     897       Calcium     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1170     1033     1014     1014       Zinc     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/bas	Boron	ppm	ASTM D5185m	0	<1	0	2
Manganese     ppm     ASTM D5185m     0     <1	Barium	ppm	ASTM D5185m	0	0	0	2
Magnesium     ppm     ASTM D5185m     1010     966     901     897       Calcium     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1150     1033     1014     1014       Zinc     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D74	Molybdenum	ppm	ASTM D5185m	60	60	62	60
Calcium     ppm     ASTM D5185m     1070     1029     996     1050       Phosphorus     ppm     ASTM D5185m     1150     1033     1014     1014       Zinc     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus     ppm     ASTM D5185m     1150     1033     1014     1014       Zinc     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     lim	Magnesium	ppm	ASTM D5185m	1010	966	901	897
Zinc     ppm     ASTM D5185m     1270     1240     1231     1186       Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414	Calcium	ppm	ASTM D5185m	1070	1029	996	1050
Sulfur     ppm     ASTM D5185m     2060     3120     3402     3117       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >30     3     6     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7615     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	Phosphorus	ppm	ASTM D5185m	1150	1033	1014	1014
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>30364SodiumppmASTM D5185m>30444PotassiumppmASTM D5185m>204109INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.20.2NitrationAbs/cm*ASTM D7624>205.86.66.1SulfationAbs/lmm*ASTM D7415>3017.618.218.0FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.lmm*ASTM D7414>2513.514.113.7	Zinc	ppm	ASTM D5185m	1270	1240	1231	1186
Silicon     ppm     ASTM D5185m     >30     3     6     4       Sodium     ppm     ASTM D5185m     >30     4     4     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7615     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7					1240	1201	
Sodium     ppm     ASTM D5185m     4     4     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	Sulfur			2060			
Sodium     ppm     ASTM D5185m     4     4     4       Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7		ppm	ASTM D5185m		3120	3402	3117
Potassium     ppm     ASTM D5185m     >20     4     10     9       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	CONTAMINAN	ppm TS	ASTM D5185m method	limit/base	3120 current	3402 history1	3117 history2
Soot %     %     *ASTM D7844     >3     0.2     0.2     0.2       Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	CONTAMINAN Silicon	ppm TS ppm	ASTM D5185m method ASTM D5185m	limit/base	3120 current 3	3402 history1 6	3117 history2 4
Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	CONTAMINAN Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >30	3120 current 3 4	3402 history1 6 4	3117 history2 4 4
Nitration     Abs/cm     *ASTM D7624     >20     5.8     6.6     6.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	CONTAMINAN Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30 >20	3120 current 3 4 4	3402 history1 6 4 10	3117 history2 4 4 9
Sulfation     Abs/.1mm     *ASTM D7415     >30     17.6     18.2     18.0       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     13.5     14.1     13.7	CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >30 >20 limit/base	3120 current 3 4 4 current	3402 history1 6 4 10 history1	3117 history2 4 4 9 history2
FLUID DEGRADATION method limit/base current history1 history2   Oxidation Abs/.1mm *ASTM D7414 >25 13.5 14.1 13.7	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >30 >20 limit/base >3	3120 current 3 4 4 current 0.2	3402 history1 6 4 10 history1 0.2	3117 history2 4 4 9 history2 0.2
Oxidation Abs/.1mm *ASTM D7414 >25 13.5 14.1 13.7	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *ASTM D7844 *ASTM D7624	limit/base >30 >20 limit/base >3 >20	3120 current 3 4 4 current 0.2 5.8	3402 history1 6 4 10 history1 0.2 6.6	3117 history2 4 4 9 history2 0.2 6.1
	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm TS ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	limit/base >30 >20 limit/base >3 >20 >30	3120 current 3 4 4 current 0.2 5.8 17.6	3402 history1 6 4 10 history1 0.2 6.6 18.2	3117 history2 4 4 9 history2 0.2 6.1 18.0
Base Number (BN) mg KOHig ASIM D2896 9.8 9.2 8.8 9.2	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm TS ppm ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415	limit/base >30 >20 limit/base >3 >20 >30 limit/base	3120 current 3 4 4 current 0.2 5.8 17.6 current	3402 history1 6 4 10 history1 0.2 6.6 18.2 history1	3117 history2 4 4 9 history2 0.2 6.1 18.0 history2
	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE Oxidation	ppm TS ppm ppm ppm ppm % Abs/cm Abs/.1mm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7415 method *ASTM D7414	limit/base >30 >20 limit/base >3 >20 >30 limit/base >25	3120 current 3 4 4 current 0.2 5.8 17.6 current 13.5	3402 history1 6 4 10 history1 0.2 6.6 18.2 history1 14.1	3117 history2 4 4 9 history2 0.2 6.1 18.0 history2 13.7

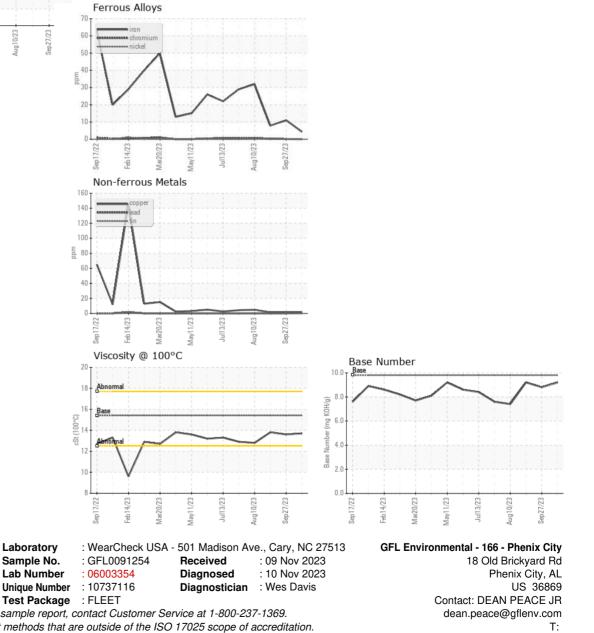


# **OIL ANALYSIS REPORT**





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
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.8
GRAPHS						





Certificate L2367 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)

Submitted By: DARRIN WRIGHT

Page 2 of 2

F: