

OIL ANALYSIS REPORT



Machine Id 738202

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 23 Aug 2023 18 May 2023 20 Oct 2022 Machine Age mits Client Info 145545 34 159 23664 Oil Age mits Client Info 145545 34 159 23664 Oil Age mits Client Info 75885 34 159 23664 Oil Changed Client Info Changed Not Changd Not Changd Sample Status WC Method >5 <1.0 <1.0 <1.0 Goycol WC Method >5 <1.0 <1.0 <1.0 <1.0 Glycol WC Method >5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <th>GAL)</th> <th></th> <th>00</th> <th>2022</th> <th>May2023 Aug20</th> <th>23</th> <th></th>	GAL)		00	2022	May2023 Aug20	23	
Sample Number Client Info PCA0100792 PCA0095795 PCA0076733 Sample Date Client Info 145545 38 May 2023 20 Oct 2022 Machine Age mis Client Info 145545 34159 23664 Oil Age mis Client Info 75885 34159 23664 Oil Changed Client Info TS885 s4159 23664 Oil Changed Client Info Changed Not Changd Not Changd Glycol WC Method >5 <1.0 <1.0 <1.0 Glycol WC Method >5 <1.0 <1.0 <1.0 Vex MetTALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >20 3 3 <1 0 Trainum ppm ASTM 05185m >30 0 1 3 3 <1 Silver ppm ASTM 05185m >30 0 0 0 0 0	SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
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Machine Age mis Client Info 145545 34159 23664 Oil Age mis Client Info 75885 34159 23664 Oil Changed Client Info Changed Not Changed Not Changed Sample Status NORIMAL NORIMAL NORIMAL NORIMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Sample Date		Client Info		23 Aug 2023	18 May 2023	20 Oct 2022
Oil Age mis Client Info 75885 34159 23664 Oil Changed Client Info Changed Not Changd Not Changd Sample Status Imit/base Current history1 history2 Fuel WC Method >5 <1.0	Machine Age	mls	Client Info		145545	34159	23664
Oil Changed Sample Status Client Info Changed NORMAL Not Changed NORMAL Not Changed NORMAL Not Changed NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Glycol WC Method >5 <1.0 <1.0 <1.0 Chromium ppm ASTM 05185m >20 3 2 2 Iron ppm ASTM 05185m >20 3 2 2 2 Nickel ppm ASTM 05185m >3 0 0 1 Aluminum ppm ASTM 05185m >3 0 0 1 Aluminum ppm ASTM 05185m >30 0 0 0 0 Cadmium ppm ASTM 05185m >40 0 0 0 0 ASTM 05185m >15 3 2 4 4 Mumium ppm ASTM 05185m <t< td=""><td>Oil Age</td><td>mls</td><td>Client Info</td><td></td><th>75885</th><td>34159</td><td>23664</td></t<>	Oil Age	mls	Client Info		75885	34159	23664
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/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 Imit/base current history1 history2 Iron ppm ASTM D5185n >100 58 31 35 Nickel ppm ASTM D5185n >4 <1 <1 0 Silver ppm ASTM D5185n >3 0 0 <1 Lead ppm ASTM D5185n >30 0 0 <1 Copper ppm ASTM D5185n >15 3 2 4 Vanadium ppm ASTM D5185n 0 0 0 0 Cadmium ppm ASTM D5185n 2 5 7 34 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Not Changd</th> <th>Not Changd</th>	Oil Changed		Client Info		Changed	Not Changd	Not Changd
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 3 2 2 Nickel ppm ASTM D5185m >3 0 0 1 Aluminum ppm ASTM D5185m >4 <1 <1 0 Silver ppm ASTM D5185m >40 0 0 <1 Copper ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 1 <1 2 M	Sample Status				NORMAL	NORMAL	NORMAL
Fuel WC Method >5 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method Imit/base current historyl historyl Iron ppm ASTM D5185m >100 58 31 35 Chromium ppm ASTM D5185m >20 3 2 2 Nickel ppm ASTM D5185m >20 30 0 1 Aluminum ppm ASTM D5185m >30 0 0 1 Aluminum ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >20 30 0 0 0 0 Capper ppm ASTM D5185m >40 0 0 0 0 Addition ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 3 2 2 Nickel ppm ASTM D5185m >20 3 3 <1	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >100 58 31 35 Chromium ppm ASTM 05185m >20 3 2 2 Nickel ppm ASTM 05185m >3 0 1 0 Titanium ppm ASTM 05185m >3 0 1 1 Aluminum ppm ASTM 05185m >3 0 0 1 1 Aluminum ppm ASTM 05185m >30 81 82 167 Tin ppm ASTM 05185m >40 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 0 ASTM 05185m 0 0 0 0 0 0 0 Cadmium ppm ASTM 05185m 0 5 7 34 Barus 150 1 1 <td< td=""><td>Glycol</td><td></td><td>WC Method</td><td></td><th>NEG</th><td>NEG</td><td>NEG</td></td<>	Glycol		WC Method		NEG	NEG	NEG
Iron ppm ASTM D5185m >100 58 31 35 Chromium ppm ASTM D5185m >20 3 2 2 Nickel ppm ASTM D5185m >4 <1	WEAR METAL	_S	method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 3 2 2 Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	58	31	35
Nickel ppm ASTM D5185m >4 <1 <1 <1 0 Titanium ppm ASTM D5185m >3 0 0 1 Silver ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >40 0 0 <1	Chromium	ppm	ASTM D5185m	>20	3	2	2
Titanium ppm ASTM D5185m 3 0 0 1 Silver ppm ASTM D5185m >3 0 0 1 Aluminum ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >40 0 0 <1	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Silver ppm ASTM D5185m >3 0 0 1 Aluminum ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >20 30 81 82 167 Tin ppm ASTM D5185m >330 81 82 167 Tin ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Marganese ppm ASTM D5185m 0 59 61 50 Magnesium ppm ASTM D5185m 0 1 <1 2 Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m	Titanium	ppm	ASTM D5185m		3	3	<1
Droit ppm ASTM D5185m >20 30 19 43 Aluminum ppm ASTM D5185m >20 30 19 43 Lead ppm ASTM D5185m >20 30 19 43 Copper ppm ASTM D5185m >330 81 82 167 Tin ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 0 ADD1TIVES method limit/base current history1 history2 4 Barium ppm ASTM D5185m 0 1 <1	Silver	nnm	ASTM D5185m	>3	0	0	1
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Lead ppm ASTM 05185m >40 0 0 <1 Copper ppm ASTM 05185m >330 81 82 167 Tin ppm ASTM 05185m >15 3 2 4 Vanadium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 0 Boron ppm ASTM 05185m 2 5 7 34 Barium ppm ASTM 05185m 0 0 0 0 0 Magnese ppm ASTM 05185m 0 1 <1	Lood	ppin	ACTM D5105m	>20	0	0	+3
Copper ppm ASIM 05185m >330 81 82 167 Tin ppm ASTM D5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 59 61 50 Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 950 948 721 Zinc ppm ASTM D5185m 2600 2506 2386	Caracter	ррп	AGTM DE105	>40	0	0	<1
In ppm ASIM U5185m >15 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 5 7 34 Barium ppm ASTM D5185m 0 0 0 0 0 Magnese ppm ASTM D5185m 0 1 <1	Copper	ppm	ASTM D5185m	>330	81	82	167
Vanadium ppm ASIM U5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 5 7 34 Barium ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 50 59 61 50 Magnesium ppm ASTM D5185m 0 1 <1	l in	ppm	ASTM D5185m	>15	3	2	4
Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 5 7 34 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 50 59 61 50 Magnesium ppm ASTM D5185m 0 1 <1	Vanadium	ppm	ASTM D5185m		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 5 7 34 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 50 59 61 50 Magnesium ppm ASTM D5185m 0 1 <1 2 Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 1050 1378 1357 1724 Phosphorus ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base <th>Cadmium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Cadmium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 2 5 7 34 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 50 59 61 50 Manganese ppm ASTM D5185m 0 1 <1 2 Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 1050 1378 1357 1724 Phosphorus ppm ASTM D5185m 1050 1378 1357 1724 Zinc ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base	ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 50 59 61 50 Manganese ppm ASTM D5185m 0 1 <1	Boron	ppm	ASTM D5185m	2	5	7	34
Molybdenum ppm ASTM D5185m 50 59 61 50 Manganese ppm ASTM D5185m 0 1 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m 0 1 <1 2 Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 1050 1378 1357 1724 Phosphorus ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 1180 1252 1150 889 Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/.1mm *ASTM D7415	Molybdenum	ppm	ASTM D5185m	50	59	61	50
Magnesium ppm ASTM D5185m 950 915 784 433 Calcium ppm ASTM D5185m 1050 1378 1357 1724 Phosphorus ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 1180 1252 1150 889 Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/.imm *ASTM D715	Manganese	ppm	ASTM D5185m	0	1	<1	2
Calcium ppm ASTM D5185m 1050 1378 1357 1724 Phosphorus ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 1180 1252 1150 889 Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/.mm<*ASTM D7415	Magnesium	ppm	ASTM D5185m	950	915	784	433
Phosphorus ppm ASTM D5185m 995 959 948 721 Zinc ppm ASTM D5185m 1180 1252 1150 889 Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/b	Calcium	ppm	ASTM D5185m	1050	1378	1357	1724
Zinc ppm ASTM D5185m 1180 1252 1150 889 Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m 20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.imm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414 >	Phosphorus	ppm	ASTM D5185m	995	959	948	721
Sulfur ppm ASTM D5185m 2600 2506 2386 2399 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.mm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg K0H/g	Zinc	ppm	ASTM D5185m	1180	1252	1150	889
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m >20 63 0 3 Potassium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.imm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg K0H/g ASTM D2896 5.4 7.5 8.6	Sulfur	ppm	ASTM D5185m	2600	2506	2386	2399
Silicon ppm ASTM D5185m >25 7 5 7 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.imm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m<>20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844<>3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624<>20 12.6 9.3 9.3 Sulfation Abs/.imm *ASTM D7415<>30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414<>25 23.8 18.7 22.0 Base Number (BN) mg K0H/g ASTM D2896 5.4 7.5 8.6	Silicon	ppm	ASTM D5185m	>25	7	5	7
Potassium ppm ASTM D5185m >20 63 51 108 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.imm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	Sodium	ppm	ASTM D5185m		3	0	3
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.tmm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg K0H/g ASTM D2896 5.4 7.5 8.6	Potassium	ppm	ASTM D5185m	>20	63	51	108
Soot % % *ASTM D7844 >3 1.3 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.tmm *ASTM D7624 >20 12.6 9.3 9.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 >20 12.6 9.3 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	Soot %	%	*ASTM D7844	>3	1.3	0.7	0.6
Sulfation Abs/.1mm *ASTM D7415 >30 24.3 21.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg K0H/g ASTM D2896 5.4 7.5 8.6	Nitration	Abs/cm	*ASTM D7624	>20	12.6	9.3	9.3
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	21.8	24.2
Oxidation Abs/.1mm *ASTM D7414 >25 23.8 18.7 22.0 Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 5.4 7.5 8.6	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	18.7	22.0
	Base Number (BN)	ma KOH/a	ASTM D2896		5.4	7.5	8.6



OIL ANALYSIS REPORT





VISUAL	_	method	limit/base	current	history1	history2
White Meta	al scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Me	tal 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
S Appearance	e scalar	*Visual	NORML	NORML	NORML	NORML
Odor Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified	Water scalar	*Visual	>0.2	NEG	NEG	NEG
Free Wate	r scalar	*Visual		NEG	NEG	NEG
FLUID	PROPERTIES	method	limit/base	current	history1	history2
Visc @ 10	0°C cSt	ASTM D445	12.00	11.0	10.7	9.9
GRAPH	IS					
Iron (pp	m)		100	Lead (ppm)		
200 Severe			80	Severe		
= ¹⁵⁰ -			e ⁶⁰			
B 100 - Abnormal			[₽] 40	Abnormal		
50 -			20			
	23		0 53	122	23	/23
0ct20	/lay18		Aug 23,	0ct20	/lay18	Aug23
Aluminur	m (ppm)		4	Chromium (p	pm)	4
⁵⁰ L			50			
40 - devere			40	Severe		
Abnormal			20 E	Abnormal		
10			10	0		
0			0			
ť20/22	/18/23		123/23	t20/22	/18/23	123/23
e Coppor ((nnm)		Aug	č	Mar	Aug
400 Severe	(ppm)		80	Silicon (ppm)		
300			60			
Ē.200			E 40			
100			E 10	Abnormal		
100			20			
52+0	23 -		0	22	23 -	23 +
0ct20/	fay18/		Aug23/	0ct20)	/lay18/	ug23//
Viscosity	≥ @ 100°C		4	Base Number	2	A
			(BH 80		1	
			у 5.0 <u>щ</u> 6.0			
0 12 - Dase			ag 4.0			
10 Abnormal			n ₽g 2.0			
84				5		
	8/2:		23/2	0/2	8/2.	23/2:
120/2	~		1	42	-	

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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