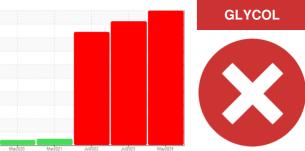


PROBLEM SUMMARY

Sample Rating Trend

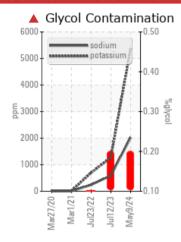


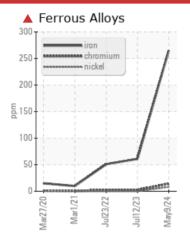
Blue Bird 6

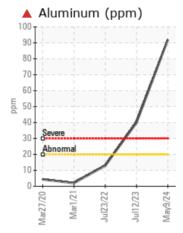
Diesel Engine

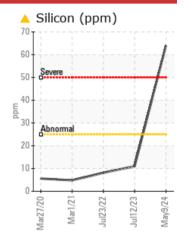
PETRO CANADA DURON SHP 10W30 (18 QTS)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Check for low coolant level. We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>130	265	61	51	
Chromium	ppm	ASTM D5185m	>10	14	3	3	
Nickel	ppm	ASTM D5185m	>4	<u>^</u> 8	0	0	
Aluminum	ppm	ASTM D5185m	>20	92	4 0	13	
Silicon	ppm	ASTM D5185m	>25	△ 64	11	8	
Sodium	ppm	ASTM D5185m		2025	△ 590	<u>^</u> 241	
Potassium	ppm	ASTM D5185m	>20	△ 5352	<u>▲</u> 1272	△ 699	
Glycol	%	*ASTM D2982		0.20	▲ 0.20	▲ 0.10	

Customer Id: ICSB270 Sample No.: PCA0112705 Lab Number: 06215309 Test Package: FLEET



To manage this report scan the QR code

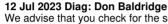
To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Glycol Access			?	We advise that you check for the source of the coolant leak.		

HISTORICAL DIAGNOSIS

GLYCOL



We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The aluminum level is abnormal. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



GLYCOL

23 Jul 2022 Diag: Jonathan Hester

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



01 Mar 2021 Diag: Jonathan Hester

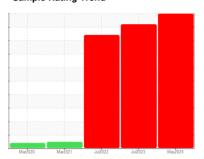
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

Blue Bird 6

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 QTS)

DIAGNOSIS

Recommendation

Check for low coolant level. We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Piston, ring and cylinder wear is indicated.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method Imilibase Current history1 history2	QTS)		Mar2020	Mar2021	Jul2022 Jul2023	May2024	
Sample Date Client Info 09 May 2024 12 Jul 2023 23 Jul 2022 Machine Age mis Client Info 147314 140289 135437 Oil Age mis Client Info 7025 4852 12725 Oil Changed Client Info Changed Changed Changed Changed Sample Status Client Info Changed Changed Changed Changed Changed CONTAMINATION method limit/base current Inistory1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >-1.0 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >-13.0 \$265 61 51 Iron ppm ASTM D5185m >-2 -1 -1 0 Silver ppm ASTM D5185m <th>SAMPLE INFORI</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 09 May 2024 12 Jul 2023 23 Jul 2022 Machine Age mis Client Info 147314 140289 135437 Oil Age mis Client Info 7025 4852 12725 Oil Changed Client Info Changed Changed Changed Changed Sample Status Client Info Changed Changed Changed Changed Changed CONTAMINATION method limit/base current Inistory1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >-1.0 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >-13.0 \$265 61 51 Iron ppm ASTM D5185m >-2 -1 -1 0 Silver ppm ASTM D5185m <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>PCA0112705</th> <th>PCA0071438</th> <th>PCA0045598</th>	Sample Number		Client Info		PCA0112705	PCA0071438	PCA0045598
Machine Age mls Client Info 147314 140289 135437 Oil Age mls Client Info 7025 4852 12725 Oil Changed Client Info Changed SEVERE SEVERE Sample Status Client Info Changed Changed Changed SEVERE SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >1.0 A 14 3 3 Chromium ppm ASTM D5185m >1.0 A 14 3 3 Nickel ppm ASTM D5185m >2.0 A 92 A 0 0 Silver ppm ASTM D5185m >2.0 A 92 A 0 13 Lead ppm ASTM D5185m >2.0 A 92 A 0 13 Lead	·		Client Info		09 May 2024	12 Jul 2023	23 Jul 2022
Oil Age mls Client Info 7025 4852 12725 Oil Changed Sample Status Client Info Changed SEVERE SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Fruel WC Method >3.0 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >130 ▲ 265 61 51 Chromium ppm ASTM D5185m >130 ▲ 265 61 51 Chromium ppm ASTM D5185m >22 -1 -1 0 0 Nickel ppm ASTM D5185m >22 -1 -1 1 0 0 Silver ppm ASTM D5185m >22 -1 -1 0 0 Copper ppm ASTM D5185m >20 4 40 13 1	•	mls			-		135437
SEVERE SEVERE SEVERE SEVERE SEVERE SEVERE CONTAMINATION method minit/base current history1 history2 history2 method minit/base current history1 history2 method minit/base method		mls	Client Info		7025	4852	12725
SEVERE SEVERE SEVERE SEVERE SEVERE SEVERE CONTAMINATION method minit/base current history1 history2 history2 method minit/base current history1 history2 method minit/base method	Oil Changed		Client Info		Changed	Changed	Changed
Fuel WC Method S3.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 Water WC Method S0.2 NEG Neg	-				_		SEVERE
Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >130 ▲ 265 61 51 Chromium ppm ASTM D5185m >10 ▲ 14 3 3 Nickel ppm ASTM D5185m >4 ♣ 8 0 0 Silver ppm ASTM D5185m >2 •1 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >4 3 0 <1 Tin ppm ASTM D5185m >4 3 0 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Irron ppm ASTM D5185m >130 ▲ 265 61 51 Chromium ppm ASTM D5185m >10 ▲ 14 3 3 Nickel ppm ASTM D5185m >4 ♣ 8 0 0 Sliver ppm ASTM D5185m >2 <1 <1 0 Sliver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 4 3 2 Copper ppm ASTM D5185m >4 3 0 <1 Vanadium ppm ASTM D5185m -1 0 0 0 Cadmium ppm ASTM D5185m 2 29 4 9 Barium ppm ASTM D5185m 0 2 0	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Iron	Water		WC Method	>0.2	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 14 3 3 Nickel ppm ASTM D5185m >4 4 8 0 0 Titanium ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >20 5 <1 6 Antimony ppm ASTM D5185m >4 3 0 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 0 Boron ppm ASTM D5185m 0 2	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >4 & 8 0 0 Titanium ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 4 4 13 Lead ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >12.5 44 3 2 Tin ppm ASTM D5185m >4 3 0 <1 Antimony ppm ASTM D5185m <1 0 0 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 0 ADDTIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 29 4 9 2	Iron	ppm	ASTM D5185m	>130	265	61	51
Titanium ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>10	<u></u> 14	3	3
Stilver	Nickel	ppm	ASTM D5185m	>4	<u>^</u> 8	0	0
Aluminum ppm ASTM D5185m >20 ▲ 92 ▲ 40 13 Lead ppm ASTM D5185m >20 5 <1 6 Copper ppm ASTM D5185m >125 44 3 2 Tin ppm ASTM D5185m >4 3 0 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 2 0 2 Boron ppm ASTM D5185m 2 29 4 9 9 Boron ppm ASTM D5185m 0 2 0 2 0 2 0 2 0 1 4 1 1	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Lead ppm ASTM D5185m >20 5 <1	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >125 44 3 2 Tin ppm ASTM D5185m >4 3 0 <1 Antimony ppm ASTM D5185m 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 2 0 2 Barium ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 0 4 <1 <1 Magnesium ppm ASTM D5185m 0 4 <1 <1 Magnesium ppm ASTM D5185m 995 1540 824 805 <t< th=""><th>Aluminum</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>4 92</th><th><u>4</u>0</th><th>13</th></t<>	Aluminum	ppm	ASTM D5185m	>20	4 92	<u>4</u> 0	13
Tin ppm ASTM D5185m >4 3 0 <1	Lead	ppm	ASTM D5185m	>20	5	<1	6
Antimony ppm ASTM D5185m	Copper	ppm	ASTM D5185m	>125	44	3	2
Vanadium Cadmium ppm ppm ASTM D5185m ppm <1	Tin	ppm	ASTM D5185m	>4	3	0	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 29 4 9 Barium ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 50 780 149 81 Manganese ppm ASTM D5185m 0 4 <1 <1 Magnesium ppm ASTM D5185m 950 956 900 824 Calcium ppm ASTM D5185m 995 1540 824 805 Phosphorus ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 1180 1297 1148 1098 Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current <th>Antimony</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th></th> <th></th> <th></th>	Antimony	ppm	ASTM D5185m				
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 29 4 9 Barium ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 50 780 149 81 Manganese ppm ASTM D5185m 0 4 <1 <1 Magnesium ppm ASTM D5185m 950 956 900 824 Calcium ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 64 1 8 Sodium ppm ASTM D5185m >20	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 2 29 4 9 Barium ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 50 780 149 81 Manganese ppm ASTM D5185m 0 4 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 2 0 2 Molybdenum ppm ASTM D5185m 50 780 149 81 Manganese ppm ASTM D5185m 0 4 <1 <1 Magnesium ppm ASTM D5185m 950 956 900 824 Calcium ppm ASTM D5185m 1050 1074 982 1089 Phosphorus ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 64 11 8 Sodium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D7844	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 780 149 81 Manganese ppm ASTM D5185m 0 4 <1	Boron	ppm	ASTM D5185m	2	29	4	9
Manganese ppm ASTM D5185m 0 4 <1	Barium	ppm	ASTM D5185m	0	2	0	2
Magnesium ppm ASTM D5185m 950 956 900 824 Calcium ppm ASTM D5185m 1050 1074 982 1089 Phosphorus ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 1180 1297 1148 1098 Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 64 11 8 Sodium ppm ASTM D5185m >25 64 11 8 Sodium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D544 >6 1 0.5 0.7 Nitration Abs/cm *AS	Molybdenum	ppm	ASTM D5185m	50	780	149	81
Calcium ppm ASTM D5185m 1050 1074 982 1089 Phosphorus ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 1180 1297 1148 1098 Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 464 11 8 Sodium ppm ASTM D5185m >20 5352 4590 4241 Potassium ppm ASTM D5185m >20 5352 41272 699 Glycol % *ASTM D7844 >6 1 0.20 40.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration <t< th=""><th>Manganese</th><th>ppm</th><th>ASTM D5185m</th><th>0</th><th>4</th><th><1</th><th><1</th></t<>	Manganese	ppm	ASTM D5185m	0	4	<1	<1
Phosphorus ppm ASTM D5185m 995 1540 824 805 Zinc ppm ASTM D5185m 1180 1297 1148 1098 Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 464 11 8 Sodium ppm ASTM D5185m >20 5352 590 241 Potassium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D2982 0.20 0.20 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method	Magnesium	ppm	ASTM D5185m	950	956	900	824
Zinc ppm ASTM D5185m 1180 1297 1148 1098 Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 64 11 8 Sodium ppm ASTM D5185m >20 5352 590 241 Potassium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D2982 0.20 0.20 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/	Calcium	ppm	ASTM D5185m	1050	1074	982	1089
Sulfur ppm ASTM D5185m 2600 3680 2772 2934 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 64 11 8 Sodium ppm ASTM D5185m >20 590 241 Potassium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D2982 0.20 0.20 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/.mm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *AST	Phosphorus	ppm	ASTM D5185m	995	1540	824	805
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 ▲ 64 11 8 Sodium ppm ASTM D5185m > 20025 ▲ 590 ▲ 241 Potassium ppm ASTM D5185m >20 ▲ 5352 ▲ 1272 ▲ 699 Glycol % *ASTM D2982 ▲ 0.20 ▲ 0.20 ▲ 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Zinc	ppm	ASTM D5185m	1180	1297	1148	1098
Silicon ppm ASTM D5185m >25 64 11 8 Sodium ppm ASTM D5185m △ 2025 △ 590 △ 241 Potassium ppm ASTM D5185m >20 ♠ 5352 △ 1272 ♠ 699 Glycol % *ASTM D2982 ▲ 0.20 ♠ 0.20 ♠ 0.20 ♠ 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Sulfur	ppm	ASTM D5185m	2600	3680	2772	2934
Sodium ppm ASTM D5185m 2025 590 241 Potassium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D2982 ▲ 0.20 ▲ 0.20 ▲ 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 5352 1272 699 Glycol % *ASTM D2982 0.20 0.20 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Silicon	ppm	ASTM D5185m	>25	64	11	8
Glycol % *ASTM D2982 ▲ 0.20 ▲ 0.20 ▲ 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Sodium	ppm	ASTM D5185m		<u>2025</u>	<u></u> 590	<u>^</u> 241
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Potassium	ppm	ASTM D5185m	>20	<u>▲</u> 5352	<u>▲</u> 1272	△ 699
Soot % % *ASTM D7844 >6 1 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Glycol	%	*ASTM D2982		▲ 0.20	▲ 0.20	▲ 0.10
Nitration Abs/cm *ASTM D7624 >20 21.3 13.4 13.9 Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 29.6 20.5 26.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Soot %	%	*ASTM D7844	>6	1	0.5	0.7
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Nitration	Abs/cm	*ASTM D7624	>20	21.3	13.4	13.9
Oxidation Abs/.1mm *ASTM D7414 >25 19.7 17.7 22.7	Sulfation	Abs/.1mm	*ASTM D7415	>30	29.6	20.5	26.1
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 18.0 12.0 7.9	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	17.7	22.7
	Base Number (BN)	mg KOH/g	ASTM D2896		18.0	12.0	7.9



OIL ANALYSIS REPORT





Sample No. Lab Number : 06215309 Unique Number : 11088173

: PCA0112705 Test Package : FLEET

Received : 20 Jun 2024 Tested : 21 Jun 2024

Diagnosed : 21 Jun 2024 - Sean Felton

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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) T: (217)379-4500

Contact: Wayne Justus

Paxton, IL

US 55082