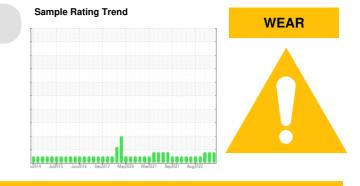
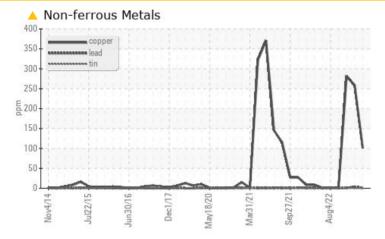


PROBLEM SUMMARY



Machine Id **3439C** Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (29 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>35	<u> </u>	<u> </u>	<u> </u>	

Customer Id: GFL017 Sample No.: GFL0088538 Lab Number: 05950009 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Jul 2023 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

09 May 2023 Diag: Jonathan Hester

WEAR



09 May 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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.



NORMAL



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.



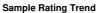




view report



OIL ANALYSIS REPORT



WEAR

Machine Id 3439C

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (29 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

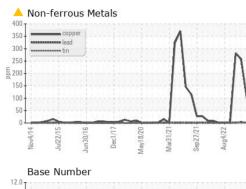
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample NumberClient InfoGFL0088538GFL0088574GFL0081177Sample DateIClient Info13 Sep 20217 Jul 202309 May 2023Machine AgehrsClient Info15105151051090Oil AgehrsClient Info5063951099Oil ChangedIClient InfoN/AN/AN/ASample StatusIImit/basecurrenthistory1history1WEAR METALSmethodJmit/basecurrenthistory11ChromiumpmASTM D5858>2-111ChromiumpmASTM D5858>2-1-11TitaniampmASTM D5858>30-1-1-1SliverpmASTM D5858>301-1-1-1LeadpmASTM D5858>301-1-1-1CadmiumpmASTM D5858>4101-1-1-1CadmiumpmASTM D58585453-1-1-1-1Sample SumpmASTM D5858565453-1-1-1-1CadmiumpmASTM D5858565453-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine AgehrsClient Info15105151051510515105Oil Ghanged-Client Info5083951099Oil Changed-Client InfoN/AABNORMALABNORMALSample Statusmethodlimitosecurrenthistory1history2IronppmASTM D5185>2211818ChromiumppmASTM D5185>2<1<11TitaniamppmASTM D5185>2<1<11SilverppmASTM D5185>3000AluminumppmASTM D5185>3000AluminumppmASTM D5185>3101\$280\$282<1<1<1CopperppmASTM D5185>3101\$215\$282\$282<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<	Sample Number		Client Info		GFL0088538	GFL0088574	GFL0061167
Oil Age hrs Client Info 508 395 1099 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Current ABNORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 21 18 18 Chronium ppm ASTM D5185m >2 <1 1 1 Nickel ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 1 3 1 Copper ppm ASTM D5185m >3 0 0 0 0 Cadmium ppm ASTM D5185m >4 <1 <1 <1 1 Cadmium ppm ASTM D5185m 50 11 11 1 1 Barin ppm ASTM D5185m <	Sample Date		Client Info		13 Sep 2023	17 Jul 2023	09 May 2023
Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Status Image Status ABNORMAL ABNORMAL ABNORMAL WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 21 18 18 Chromium ppm ASTM D5185m >4 1 2 2 Nickel ppm ASTM D5185m >4 1 2 2 Nickel ppm ASTM D5185m >4 1 2 2 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >3 101 <1 <1 Cadadium ppm ASTM D5185m >4 <1 <1 <1 Cadadium ppm ASTM D5185m 5 11 11 17 <1 Cadadium ppm ASTM D5185m 5 54 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>15105</th> <th>15105</th> <th>15105</th>	Machine Age	hrs	Client Info		15105	15105	15105
Sample Status Image of the status Image of the status ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 21 18 18 Chromium ppm ASTM D5185m >2 <1 <1 1 Titanium ppm ASTM D5185m >2 <1 <1 1 Silver ppm ASTM D5185m >3 0 <1 <1 <1 Lead ppm ASTM D5185m >9 <1 6 <1 <1 Copper ppm ASTM D5185m >30 1 <1 <1 <1 Cadmium ppm ASTM D5185m >4 <1 <1 <1 Cadmium ppm ASTM D5185m 50 11 11 17 <1 Baron ppm ASTM D5185m 50 55 54	Oil Age	hrs	Client Info		508	395	1099
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5165m >50 21 18 18 Chromium ppm ASTM D5165m >2 <1 2 2 Nickel ppm ASTM D5165m >2 <1 <1 1 Titanium ppm ASTM D5165m >3 0 0 0 Aluminum ppm ASTM D5165m >3 0 0 0 Lead ppm ASTM D5165m >3 0 0 0 0 Copper ppm ASTM D5165m >3 101 ▲ 258 ▲ 282 Tin ppm ASTM D5165m >4 <1 <1 <1 Cadmium ppm ASTM D5165m 50 11 11 11 17 Baron ppm ASTM D5165m 50 54 53 34 Maganese ppm ASTM D5165m 50 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th>	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >50 21 18 18 Chromium ppm ASTM D5185m >4 1 2 2 Nickel ppm ASTM D5185m >2 <1 <1 1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >30 101 ▲ 258 ▲ 282 Tin ppm ASTM D5185m >30 1 3 1 <1 Cadmium ppm ASTM D5185m >4 <1 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>ABNORMAL</th><th>ABNORMAL</th><th>ABNORMAL</th></t<>	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >4 1 2 2 Nickel ppm ASTM D5185m >2 <1 <1 1 Titanium ppm ASTM D5185m >3 0 0 0 Sliver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >4 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <t< th=""><th>WEAR METAL</th><th>S</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 <1	Iron	ppm	ASTM D5185m	>50	21	18	18
Titanium ppm ASTM D5185m 0 <1	Chromium	ppm	ASTM D5185m	>4	1	2	2
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 <1	Nickel	ppm	ASTM D5185m	>2	<1	<1	1
Aluminum ppm ASTM D5185m >9 <1 6 <1 Lead ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >35 101 258 282 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m >4 <1 <1 <1 Cadmium ppm ASTM D5185m 50 11 11 17 Cadmium ppm ASTM D5185m 50 11 11 17 Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 50 634 623 666 Calcium ppm ASTM D5185m 750 170 816 Zinc ppm ASTM D5185m 750 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728	Titanium	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >30 1 3 1 Copper ppm ASTM D5185m >35 101 258 282 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m >4 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 54 53 Maganese ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 101 258 282 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m >4 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 50 634 623 666 Calcium ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 70 1004 1000 1018 Sulfur ppm ASTM D5185m >410 7 7 7 Potassium ppm ASTM D5185m >20 2	Aluminum	ppm	ASTM D5185m	>9			
Tin ppm ASTM D5185m >4 <1	Lead	ppm	ASTM D5185m	>30	1	3	1
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>35	<u> </u>	<u> </u>	<u> </u>
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 0 <11	Tin	ppm		>4	<1	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 50 1 0 0 Molybdenum ppm ASTM D5185m 50 55 54 53 Magnesium ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current </th <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th><1</th> <th><1</th>	Vanadium	ppm	ASTM D5185m		<1	<1	<1
Boron ppm ASTM D5185m 50 11 11 17 Barium ppm ASTM D5185m 5 0 1 0 Molybdenum ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 1510 1743 1735 1443 Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >2	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 5 0 1 0 Molybdenum ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 510 1743 1735 1443 Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base <td< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 55 54 53 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 1510 1743 1735 1443 Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7644	Boron	ppm	ASTM D5185m	50	11	11	17
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	5	0	1	0
Magnesium ppm ASTM D5185m 560 634 623 666 Calcium ppm ASTM D5185m 1510 1743 1735 1443 Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 0 Nitration Abs/.1mm *ASTM D7415	Molybdenum	ppm	ASTM D5185m	50	55	54	53
Calcium ppm ASTM D5185m 1510 1743 1735 1443 Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/.m *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.imm *ASTM D7415 >30	Manganese	ppm	ASTM D5185m	0	<1	1	<1
Phosphorus ppm ASTM D5185m 780 775 770 816 Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/.m *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.imm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base cu	Magnesium	ppm	ASTM D5185m	560	634	623	666
Zinc ppm ASTM D5185m 870 1004 1000 1018 Sulfur ppm ASTM D5185m 2040 2728 2793 2919 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current </th <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>1510</th> <th>1743</th> <th>1735</th> <th>1443</th>	Calcium	ppm	ASTM D5185m	1510	1743	1735	1443
SulfurppmASTM D5185m2040272827932919CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>+1009810SodiumppmASTM D5185m777PotassiumppmASTM D5185m>20233INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844000NitrationAbs/cm*ASTM D7624>2010.010.38.6SulfationAbs/1mm*ASTM D7415>3020.019.617.8FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/1mm*ASTM D7414>2517.817.615.6	Phosphorus	ppm	ASTM D5185m	780	775	770	816
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>+1009810SodiumppmASTM D5185m777PotassiumppmASTM D5185m>20233INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844000NitrationAbs/cm*ASTM D7624>2010.010.38.6SulfationAbs/tmm*ASTM D7415>3020.019.617.8FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.817.615.6	Zinc	ppm	ASTM D5185m	870	1004	1000	1018
Silicon ppm ASTM D5185m >+100 9 8 10 Sodium ppm ASTM D5185m 7 7 7 Potassium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.tmm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 17.8 17.6 15.6	Sulfur	ppm	ASTM D5185m	2040	2728	2793	2919
Sodium ppm ASTM D5185m 7 7 7 Potassium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.tmm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 17.8 17.6 15.6	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Silicon	ppm	ASTM D5185m	>+100	9	8	10
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.1mm *ASTM D7615 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Sodium	ppm	ASTM D5185m		7	7	7
Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Potassium	ppm	ASTM D5185m	>20	2	3	3
Nitration Abs/cm *ASTM D7624 >20 10.0 10.3 8.6 Sulfation Abs/.tmm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 17.8 17.6 15.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Soot %	%	*ASTM D7844		0	0	0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.3	8.6
Oxidation Abs/.1mm *ASTM D7414 >25 17.8 17.6 15.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.6	17.8
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.6	15.6
	Base Number (BN)		ASTM D2896	10.2	6.2		5.7



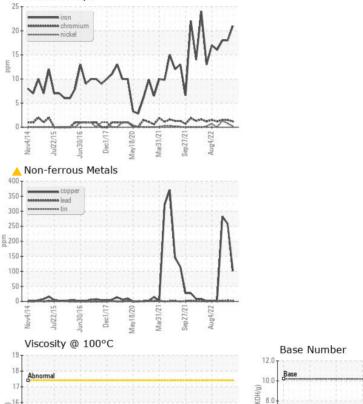
OIL ANALYSIS REPORT

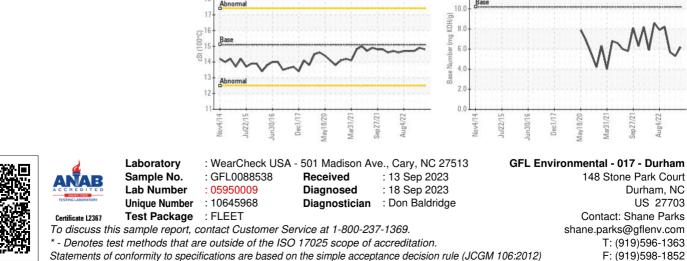


			M	V
 Abnormal	Jul22/15	Dec1/17 May18/20	Mar31/21 Sep27/21	Aug4/22
	100000000000000000000000000000000000000	C		

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	>0.1	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	15.1	14.8	14.9	14.7
GRAPHS						

Ferrous Alloys





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Shane Parks

Page 4 of 4