

# **OIL ANALYSIS REPORT**





Diesel Engine Fluid DIESEL ENGINE OIL 10W40 (--- GAL)

## DIAGNOSIS

Machine Id 9424 Component

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) 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. Light fuel dilution occurring. No other contaminants were detected in the oil.

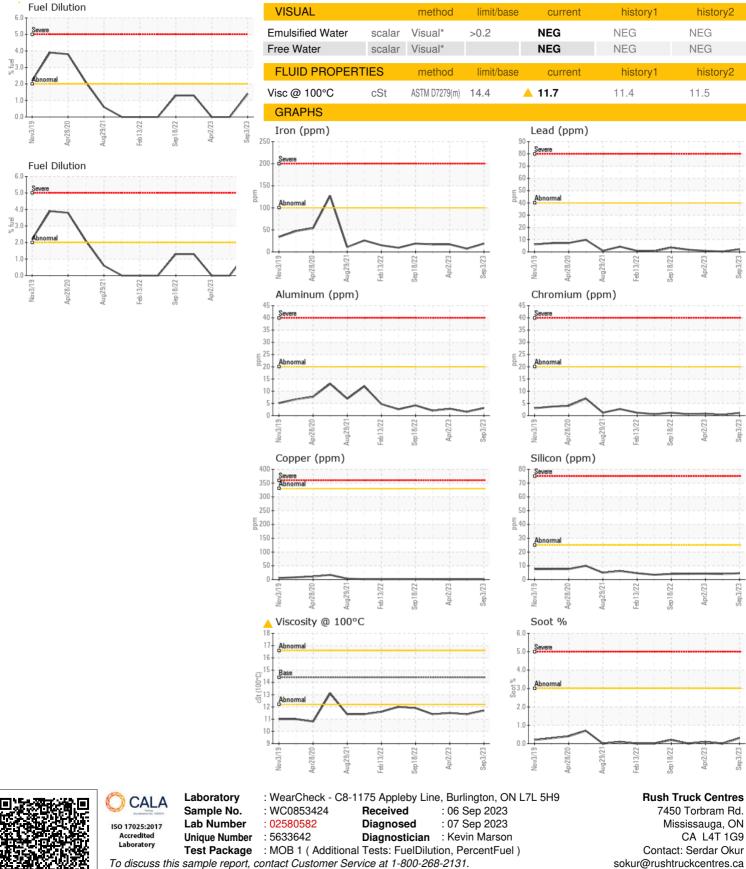
## Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sample Number     Client Info     WC0853424     WC0796542     WC0796544     WC0796544     WC0796544       Sample Date     Client Info     Method     Imil/base     current     history1     history2       Glycol     WC MFMB516666     >10     1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1 <th></th> <th></th> <th></th> <th></th> <th></th> <th>Sep2023</th> <th></th>						Sep2023	
Sample Date     Client Info     03 Sep 2023     05 Jun 2023     02 Apr 2023       Machine Age     kms     Client Info     544444     507469     477956       Oil Age     kms     Client Info     0     0     0     0       Oil Changed     Client Info     Changed     Not Changed     Not Changed     NorMAL     NorMAL       CONTAMINATION     method     limit/base     current     history1     history2       Glycol     WC Method     Imit/base     current     history1     history2       Kronnum     ppm     ASTM0518800     >20     1     <1	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine AgekmsClient Info54444507469477956Oil AgeKmsClient Info0000Sample StatusIClient InfoABNORMALNORMALNORMALCONTAMINATIONWC MethodImit/basecurrenthistory1history2GlycolWC MethodImit/basecurrenthistory1history2KannoppmASTM D5185im>10019717ChromiumppmASTM D5185im>201<1	Sample Number		Client Info		WC0853424	WC0796542	WC0796269
Oil Age     kms     Client Info     0     0     0     0       Oil Changed     Client Info     Changed     Not Changed     Not Mode     Normal       Sample Status     I     Imit base     current     history1     Normal       Glycol     WC Method     Imit base     current     history1     history2       Glycol     WC Method     Imit base     current     history1     history2       Iron     ppm     ASTM D5185(m)     >10     1     <1	Sample Date		Client Info		03 Sep 2023	05 Jun 2023	02 Apr 2023
Oli Changed Client Info Changed ABNORMAL Not Changed NORMAL Not Changed NORMAL Changed NORMAL Nor Changed NEG Nor Chan	Machine Age	kms	Client Info		544444	507469	477956
Sample Status     Image of the status     ABNORMAL     NORMAL     NORMAL       CONTAMINATION     method     limit/base     current     history1     history2       Glycol     WC Method     Imit/base     current     history1     history2       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185(m)     >100     19     7     17       Chromium     ppm     ASTM D5185(m)     >40     1     <1	Oil Age	kms	Client Info		0	0	-
CONTAMINATION     method     limit/base     current     history1     history2       Glycol     WC Method     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5186/m     >100     19     7     17       Chromium     ppm     ASTM D5186/m     >20     1     <1	Oil Changed		Client Info			-	Changed
Glycol     WC Method     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM 05185(m)     >20     1     <1	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185(m)     >100     19     7     1       Chromium     ppm     ASTM D5185(m)     >20     1     <1     <1       Nickel     ppm     ASTM D5185(m)     >4     <1     <1     <1       Nickel     ppm     ASTM D5185(m)     >20     3     2     3       Lead     ppm     ASTM D5185(m)     >30     <1     <1     <1       Copper     ppm     ASTM D5185(m)     >30     <1     <1     <1       Attimony     ppm     ASTM D5185(m)     >30     <1     <1     <1       Attimony     ppm     ASTM D5185(m)     0     0     0     0       Vanadium     ppm     ASTM D5185(m)     0     0     0     0       Attimony     ppm     ASTM D5185(m)     10     0     0     0       Attimony     ppm     ASTM D5185(m)     100     0	CONTAMINATION	١	method	limit/base	current	history1	history2
Iron     ppm     ASTM D5185(m)     >100     19     7     17       Chromium     ppm     ASTM D5185(m)     >20     1     <1     <1     <1       Nickel     ppm     ASTM D5185(m)     >20     1     <1     <1     <1       Nickel     ppm     ASTM D5185(m)     >20     3     2     3       Aluminum     ppm     ASTM D5185(m)     >20     3     2     3       Lead     ppm     ASTM D5185(m)     >40     2     <1     <1       Copper     ppm     ASTM D5185(m)     >10     0     0     0       Vanadium     ppm     ASTM D5185(m)     0     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0     0       Addmium     ppm     ASTM D5185(m)     10     0     0     0       Cadmium     ppm     ASTM D5185(m)     100     0     0     0       Barium     ppm     ASTM D5185(m)	Glycol		WC Method		NEG	NEG	NEG
Chromium     ppm     ASTM D5185(m)     >20     1     <1     <1     <1       Nickel     ppm     ASTM D5185(m)     >4     <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185(m)     >4     <1     <1     <1       Titanium     ppm     ASTM D5185(m)     >3     <1	Iron	ppm	ASTM D5185(m)	>100	19	7	17
Titanium     ppm     ASTM D5185(m)     >3     <1     0     <1       Silver     ppm     ASTM D5185(m)     >3     <1	Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Silver     ppm     ASTM D5185(m)     >3     <1     0     0       Aluminum     ppm     ASTM D5185(m)     >20     3     2     3       Lead     ppm     ASTM D5185(m)     >40     2     <1     <1       Copper     ppm     ASTM D5185(m)     >40     2     <1     <1       Tin     ppm     ASTM D5185(m)     15     0     0     0     <1       Antimony     ppm     ASTM D5185(m)     15     0     0     0     0       Vanadium     pm     ASTM D5185(m)     15     0     0     0     0       ASTM D5185(m)     Pm     ASTM D5185(m)     10     0     0     0       ASTM D5185(m)     100     2     2     2     2       Manganese     ppm     ASTM D5185(m)     100     2     2     2       Manganesium     pm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Aluminum     ppm     ASTM D5185(m)     >20     3     2     3       Lead     ppm     ASTM D5185(m)     >40     2     <1	Titanium	ppm	ASTM D5185(m)		0	0	<1
Lead     ppm     ASTM D5185(m)     >40     2     <1     <1       Copper     ppm     ASTM D5185(m)     >330     <1     <1     <1       Tin     ppm     ASTM D5185(m)     >15     0     0     <1       Antimony     ppm     ASTM D5185(m)     >15     0     0     0       Vanadium     ppm     ASTM D5185(m)     0     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     10     0     0     0       Molybdenum     ppm     ASTM D5185(m)     10     2     2     2       Maganese     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1450     831     790     814       Sulfur     ppm     ASTM D5185(m)     255     5 </td <td>Silver</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>&gt;3</td> <th>&lt;1</th> <td>0</td> <td>0</td>	Silver	ppm	ASTM D5185(m)	>3	<1	0	0
CopperppmASTM D5188(m)>330<1<1<1<1TinppmASTM D5188(m)>1500<1	Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
Tin     ppm     ASTM D5188(m)     >15     0     0     <1       Antimony     ppm     ASTM D5188(m)     0     0     0     0       Vanadium     ppm     ASTM D5188(m)     0     0     0     0       Beryllium     ppm     ASTM D5188(m)     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5188(m)     10     0     0     0       Molybdenum     ppm     ASTM D5188(m)     100     2     2     2       Maganese     ppm     ASTM D5188(m)     100     2     2     2       Maganesium     ppm     ASTM D5188(m)     100     2     2     2       Maganesium     ppm     ASTM D5188(m)     100     2     2     2       Maganesium     ppm     ASTM D5188(m)     300     1450     1332     1470       Phosphorus     ppm     ASTM D5188(m)     250	Lead	ppm	ASTM D5185(m)	>40	2	<1	<1
Antimony     ppm     ASTM D5188(m)     0     0     0       Vanadium     ppm     ASTM D5188(m)     0     0     0       Beryllium     ppm     ASTM D5188(m)     0     0     0       Cadmium     ppm     ASTM D5188(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5188(m)     10     0     0     0       Maganese     ppm     ASTM D5188(m)     100     2     2     2       Maganesium     ppm     ASTM D5188(m)     100     2     2     2       Maganesium     ppm     ASTM D5188(m)     100     2     1470     773       Calcium     ppm     ASTM D5188(m)     150     661     729     773       Calcium     ppm     ASTM D5188(m)     1350     831     790     814       Sulfur     ppm     ASTM D5188(m)     1350     831     790     814 <tr< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185(m)</td><td>&gt;330</td><th>&lt;1</th><td>&lt;1</td><td>&lt;1</td></tr<>	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Vanadium     ppm     ASTM D5185(m)     0     0     0       Beryllium     ppm     ASTM D5185(m)     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     250     25     66     39       Barium     ppm     ASTM D5185(m)     100     0     0     0       Molybdenum     ppm     ASTM D5185(m)     100     2     2     2       Maganese     ppm     ASTM D5185(m)     100     2     2     2       Calcium     ppm     ASTM D5185(m)     150     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     1350     831     790 <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185(m)</td><td>&gt;15</td><th>0</th><td>0</td><td>&lt;1</td></t<>	Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Beryllium     ppm     ASTM D5185(m)     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     250     25     66     39       Barium     ppm     ASTM D5185(m)     10     0     0     0       Molybdenum     ppm     ASTM D5185(m)     10     2     2     2       Manganese     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     20     8     4	Antimony	ppm	ASTM D5185(m)		0	0	0
Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     250     25     66     39       Barium     ppm     ASTM D5185(m)     10     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     100     2     2     2     2       Magnesium     ppm     ASTM D5185(m)     100     2     2     2     2       Magnesium     ppm     ASTM D5185(m)     100     2     2     2     2       Calcium     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     >22     5     4     4     3       Sodium	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5/85(m)     250     25     66     39       Barium     ppm     ASTM D5/85(m)     10     0     0     0       Molybdenum     ppm     ASTM D5/85(m)     100     2     2     2       Manganese     ppm     ASTM D5/85(m)     100     2     2     2       Magnesium     ppm     ASTM D5/85(m)     100     2     2     2       Calcium     ppm     ASTM D5/85(m)     450     681     729     773       Calcium     ppm     ASTM D5/85(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5/85(m)     1150     763     748     778       Zinc     ppm     ASTM D5/85(m)     1450     2538     2538     2654       Lithium     ppm     ASTM D5/85(m)     >25     5     4     4       Sodium     ppm     ASTM D5/85(m)	Beryllium	ppm	ASTM D5185(m)		0	0	0
Boron     ppm     ASTM D5185(m)     250     25     66     39       Barium     ppm     ASTM D5185(m)     10     0     0     0       Molybdenum     ppm     ASTM D5185(m)     100     2     2     2       Manganese     ppm     ASTM D5185(m)     100     2     2     2       Manganese     ppm     ASTM D5185(m)     100     2     2     2       Manganese     ppm     ASTM D5185(m)     100     2     2     2       Calcium     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     >20     8     4     0       Sodium     ppm     ASTM D5185(m)	Cadmium	ppm	ASTM D5185(m)		0	0	0
Barium     ppm     ASTM D5185(m)     10     0     0     0       Molybdenum     ppm     ASTM D5185(m)     100     2     2     2       Manganese     ppm     ASTM D5185(m)     <1     <1     <1       Magnesium     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     <	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185(m)     100     2     2     2       Manganese     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2654     44       Solicon     ppm     ASTM D5185(m)     225     5     4     4       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     8     4     0       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)	Boron	ppm	ASTM D5185(m)	250	25	66	39
Manganese     ppm     ASTM D5185(m)     <     <1     <1     <1       Magnesium     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2654     1       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     8     4     0       Soot %     %     ASTM D7844*	Barium	ppm	ASTM D5185(m)	10	0	0	0
Magnesium     ppm     ASTM D5185(m)     450     681     729     773       Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2538     2654       Silicon     ppm     ASTM D5185(m)     4250     2538     2538     2654       Solium     ppm     ASTM D5185(m)     4250     2538     2538     2654       Solium     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D7893*     >2.0     1.4     <1.0	Molybdenum	ppm	ASTM D5185(m)	100	2	2	2
Calcium     ppm     ASTM D5185(m)     3000     1450     1332     1470       Phosphorus     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2654     1     <1	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Phosphorus     ppm     ASTM D5185(m)     1150     763     748     778       Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2654       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     8     4     0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0.3     0     0.1       Nitration     Abs/.m     ASTM D7414*     >30     25.4     19.0     24.9       FLUID DEGRADATION     Method     limit/base     cu	Magnesium	ppm	ASTM D5185(m)	450	681	729	773
Zinc     ppm     ASTM D5185(m)     1350     831     790     814       Sulfur     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)     4250     2538     2538     2654       Lithium     ppm     ASTM D5185(m)      current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     8     4     0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0.3     0     0.1       Nitration     Abs/.m     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7644* </td <td>Calcium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>3000</td> <th>1450</th> <td>1332</td> <td>1470</td>	Calcium	ppm	ASTM D5185(m)	3000	1450	1332	1470
SulfurppmASTM D5185(m)4250253825382654LithiumppmASTM D5185(m) </td <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>1150</td> <th>763</th> <td>748</td> <td>778</td>	Phosphorus	ppm	ASTM D5185(m)	1150	763	748	778
LithiumppmASTM D5185(m)<1<1<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>25544SodiumppmASTM D5185(m)>20840PotassiumppmASTM D5185(m)>20840Fuel%ASTM D5185(m)>201.4<1.0	Zinc	ppm	ASTM D5185(m)	1350	831	790	814
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>25544SodiumppmASTM D5185(m)>20840PotassiumppmASTM D5185(m)>20840Fuel%ASTM D5185(m)>201.4<1.0	Sulfur	ppm	ASTM D5185(m)	4250	2538	2538	2654
Silicon     ppm     ASTM D5185(m)     >25     5     4     4       Sodium     ppm     ASTM D5185(m)     <25     5     4     4       Sodium     ppm     ASTM D5185(m)     <20     3     3     3       Potassium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     1.4     <1.0     <1.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7624*     >3     0.3     0     0.1       Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/1mm     ASTM D7614*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium     ppm     ASTM D5185(m)     3     3     3       Potassium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D5185(m)     >20     1.4     <1.0     <1.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0.3     0     0.1       Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185(m)     >20     8     4     0       Fuel     %     ASTM D7593*     >2.0     1.4     <1.0     <1.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7644*     >3     0.3     0     0.1       Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Fuel     %     ASTM D7593*     >2.0     1.4     <1.0     <1.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0.3     0     0.1       Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	Sodium	ppm	ASTM D5185(m)		3	3	3
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>30.300.1NitrationAbs/cmASTM D7624*>2010.58.810.2SulfationAbs/.1mmASTM D7415*>3025.419.024.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mmASTM D7414*>2519.513.616.9	Potassium	ppm	ASTM D5185(m)	>20	8	4	0
Soot %     %     ASTM D7844*     >3     0.3     0     0.1       Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	Fuel	%	ASTM D7593*	>2.0	1.4	<1.0	<1.0
Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7615*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	INFRA-RED		method	limit/base	current	history1	history2
Nitration     Abs/cm     ASTM D7624*     >20     10.5     8.8     10.2       Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9	Soot %	%	ASTM D7844*	>3	0.3	0	0.1
Sulfation     Abs/.1mm     ASTM D7415*     >30     25.4     19.0     24.9       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     ASTM D7414*     >25     19.5     13.6     16.9		Abs/cm		>20		8.8	
Oxidation Abs/.1mm ASTM D7414* >25 <b>19.5</b> 13.6 16.9	Sulfation						
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
59:06) Rev: 1 Contact/Location: Serdar Okur - RUSMIS	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	13.6	16.9
	59:06) Rev: 1						



# **OIL ANALYSIS REPORT**



Apr2/23

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history2

history2

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