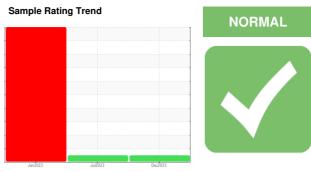


# **OIL ANALYSIS REPORT**

# KEMP QUARRIES / HULBERT **TTH036**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)



## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 changed fluid and filters )

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

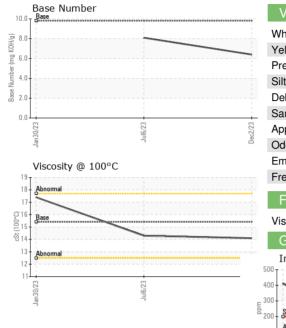
#### **Fluid Condition**

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   PCA0086291   PCA0086714   Sample Date   Client Info   Q2 Dec 2023   06 Jul 2023   30 Jan 2023   30 Jan 2023   6499   Oil Changed   hrs   Client Info   7525   6958   6499   Oil Changed   Client Info   Changed   Changed	<i>(</i> AL)		Jar	2023	Jul2023 Dec20	23	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     7525     6958     6499       Oil Age     hrs     Client Info     7525     6958     6499       Oil Changed     Client Info     Changed	Sample Number		Client Info		PCA0109284	PCA0086291	PCA0086714
Oil Age     hrs     Client Info     7525     6958     6499       Oil Changed Sample Status     Client Info     Changed Changed Changed Changed Changed Sample Status     NORMAL NORMAL NORMAL SEVERE       CONTAMINATION     method Imitibase current     history1     history2       Fuel     WC Method     >5     <1.0	Sample Date		Client Info		02 Dec 2023	06 Jul 2023	30 Jan 2023
Oil Changed Sample Status     Client Info     Changed NORMAL     Changed NORMAL     Changed SEVERE       CONTAMINATION     method     limit/base     current     history1     history2       Fuel     WC Method     >5     <1.0	Machine Age	hrs	Client Info		7525	6958	6499
Sample Status	Oil Age	hrs	Client Info		7525	6958	6499
Sample Status	Oil Changed		Client Info		Changed	Changed	Changed
Fuel					NORMAL		SEVERE
Water     WC Method     >0.2     NEG     NEG     NEG       Glycol     WC Method     Imitibase     current     history1     history2       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >100     24     71     411       Chromium     ppm     ASTM D5185m     >20     <1	CONTAMINATI	ON	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium     ppm     ASTM D5185m     >20     <1     1     5       Nickel     ppm     ASTM D5185m     >4     <1     <1     2       Tittanium     ppm     ASTM D5185m     >4     <1     <1     2       Silver     ppm     ASTM D5185m     >3     0     0     0       Aluminum     ppm     ASTM D5185m     >20     2     7     ▲27       Lead     ppm     ASTM D5185m     >40     2     2     2     35       Copper     ppm     ASTM D5185m     >40     2     2     2     35       Copper     ppm     ASTM D5185m     >15     <1     <1     3     10       Tin     ppm     ASTM D5185m     0     0     0     <1     1     3       Vanadium     ppm     ASTM D5185m     0     3     4     56     50     2     1     1     4     56       Barium     ppm     ASTM D5185m     0     <	WEAR METALS	S	method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >4     <1     <1     2       Titanium     ppm     ASTM D5185m     0     0     <1	Iron	ppm	ASTM D5185m	>100	24	71	<b>411</b>
Titanium     ppm     ASTM D5185m     0     0     <1       Silver     ppm     ASTM D5185m     >3     0     0     0       Aluminum     ppm     ASTM D5185m     >20     2     7     ▲ 27       Lead     ppm     ASTM D5185m     >40     2     2     35       Copper     ppm     ASTM D5185m     >33     10     1     3     10       Tin     ppm     ASTM D5185m     >15     <1	Chromium	ppm	ASTM D5185m	>20	<1	1	5
Silver     ppm     ASTM D5185m     >3     0     0     0       Aluminum     ppm     ASTM D5185m     >20     2     7     ▲ 27       Lead     ppm     ASTM D5185m     >40     2     2     35       Copper     ppm     ASTM D5185m     >330     <1     3     10       Tin     ppm     ASTM D5185m     >15     <1     <1     3     10       Vanadium     ppm     ASTM D5185m     0     0     0     <1     3       Vanadium     ppm     ASTM D5185m     0     0     0     <1     3       Vanadium     ppm     ASTM D5185m     0     0     0     <1     1     0     <1     0     0     <1     0     <1     0     <1     0     <1     0     <1     0     0     <1     0     <1     0     <1     0     <1     0     <1     0     <1     0     <1     <1     1     <1 </td <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;4</td> <th>&lt;1</th> <td>&lt;1</td> <td>2</td>	Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Aluminum     ppm     ASTM D5185m     >20     2     7     △ 27       Lead     ppm     ASTM D5185m     >40     2     2     35       Copper     ppm     ASTM D5185m     >330     <1	Titanium	ppm	ASTM D5185m		0	0	<1
Lead     ppm     ASTM D5185m     >40     2     2     35       Copper     ppm     ASTM D5185m     >330     <1     3     10       Tin     ppm     ASTM D5185m     >15     <1     <1     3       Vanadium     ppm     ASTM D5185m     0     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0     <1       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     4     56     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4     4       Magnesium     ppm     ASTM D5185m     0     <1     <1     1     4       Magnesium     ppm     ASTM D5185m	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper     ppm     ASTM D5185m     >330     <1     3     10       Tin     ppm     ASTM D5185m     >15     <1	Aluminum	ppm	ASTM D5185m	>20	2	7	<u>^</u> 27
Tin     ppm     ASTM D5185m     >15     <1     <1     3       Vanadium     ppm     ASTM D5185m     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3	Lead	ppm	ASTM D5185m	>40	2	2	35
Tin     ppm     ASTM D5185m     >15     <1     <1     3       Vanadium     ppm     ASTM D5185m     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185 <th< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;330</td><th>&lt;1</th><td>3</td><td>10</td></th<>	Copper	ppm	ASTM D5185m	>330	<1	3	10
Vanadium     ppm     ASTM D5185m     0     0     <1       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1		ppm	ASTM D5185m	>15	<1	<1	3
Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1	Vanadium		ASTM D5185m		0	0	<1
Boron     ppm     ASTM D5185m     0     3     4     56       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     4     4       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method <th< td=""><td>Cadmium</td><td></td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>0</td></th<>	Cadmium		ASTM D5185m		0	0	0
Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     4     49       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     60     65     59     28       Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     49       Sodium     ppm     ASTM D5185m     20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     *ASTM D7844     >3	Boron	ppm	ASTM D5185m	0	3	4	56
Manganese     ppm     ASTM D5185m     0     <1     <1     4       Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     49       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     2.4       Nitration     Abs/m     *ASTM D7815	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium     ppm     ASTM D5185m     1010     1070     965     213       Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     49       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/:mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     *AST	Molybdenum	ppm	ASTM D5185m	60	65	59	28
Calcium     ppm     ASTM D5185m     1070     1145     1239     2420       Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     49       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION method     limit/base     current     history1     history2       Oxidation     Abs/.1mm	Manganese	ppm	ASTM D5185m	0	<1	<1	4
Phosphorus     ppm     ASTM D5185m     1150     1123     1127     1132       Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     △     49       Sodium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     "ASTM D7844     >3     0.2     0.3     △     2.4       Nitration     Abs/cm     "ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     "ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs	Magnesium	ppm	ASTM D5185m	1010	1070	965	213
Zinc     ppm     ASTM D5185m     1270     1421     1399     1511       Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     ▲ 49       Sodium     ppm     ASTM D5185m     4     21     ▲ 134       Potassium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm	Calcium	ppm	ASTM D5185m	1070	1145	1239	2420
Sulfur     ppm     ASTM D5185m     2060     3185     3892     4097       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     ▲ 49       Sodium     ppm     ASTM D5185m     20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Phosphorus	ppm	ASTM D5185m	1150	1123	1127	1132
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     5     8     ▲ 49       Sodium     ppm     ASTM D5185m     4     21     ▲ 134       Potassium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Zinc	ppm	ASTM D5185m	1270	1421	1399	1511
Silicon     ppm     ASTM D5185m     >25     5     8     ▲ 49       Sodium     ppm     ASTM D5185m     4     21     ▲ 134       Potassium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION method limit/base current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Sulfur	ppm	ASTM D5185m	2060	3185	3892	4097
Sodium     ppm     ASTM D5185m     4     21     ▲ 134       Potassium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     2     5     28       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION method limit/base current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Silicon	ppm	ASTM D5185m	>25	5	8	<b>4</b> 9
INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Sodium	ppm	ASTM D5185m		4	21	<u>134</u>
Soot %     %     *ASTM D7844 >3     0.2     0.3     ▲ 2.4       Nitration     Abs/cm     *ASTM D7624 >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415 >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414 >25     21.2     18.8     22.6	Potassium	ppm	ASTM D5185m	>20	2	5	28
Nitration     Abs/cm     *ASTM D7624     >20     11.3     9.4     12.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation     Abs/.1mm     *ASTM D7415     >30     21.4     21.1     29.4       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     21.2     18.8     22.6	Soot %	%	*ASTM D7844	>3	0.2	0.3	<u>2.4</u>
FLUID DEGRADATION method limit/base current history1 history2   Oxidation Abs/.1mm *ASTM D7414 >25 21.2 18.8 22.6	Nitration	Abs/cm	*ASTM D7624	>20	11.3	9.4	12.3
Oxidation Abs/.1mm *ASTM D7414 >25 <b>21.2</b> 18.8 22.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.1	29.4
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	18.8	22.6
	Base Number (BN)	mg KOH/g		9.8	6.4	8.1	



# **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
<b>Emulsified Water</b>	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	14.1	14.3	<b>▲</b> 17.4
GRAPHS						
Iron (ppm)				Lead (ppm)		
400				Severe		
				0.0		
300 Severe				Abnormal 40		
100 Abnormal	_			20		
0/23	Jul6/23 +		Dec2/23	0/23	Jul6/23	Dec2/23
Jan30/23	7		Dec	Jan30/23	Jul.	Dec
Aluminum (ppm)				Chromium (	ppm)	
Severe				Severe		
E 30 Abnormal				30 Abnormal		
20 - Abnormal			-	20 - Abnormal		
10	\			10		
Jan 30/23	Jul6/23		Dec2/23	Jan30/23	Jul6/23	Dec2/23
,	٦		Dec	-		Dec
Copper (ppm)				Silicon (ppm	1)	
Severe Abronnal				60		1
E 200				E 40		
100				Abnormal		
0				0		
Jan30/23	Jul6/23 -	·	Dec2/23	Jan30/23	Jul6/23	Dec2/23 -
Jan	7		Dec	Jan	ㅋ	Dec

Base Number

10.0 (mg KOH/g)

Base Number 0.0

Dec2/23





Laboratory Sample No. Lab Number Unique Number : 10789228

: PCA0109284 : 06033999

Viscosity @ 100°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 13 Dec 2023 : 18 Dec 2023

Diagnostician : Don Baldridge

Test Package : MOB 1 (Additional Tests: TBN) 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)

Kemp Quarries - Kemp Stone - Hulbert

17801 Hwy 80 Hulbert, OK US 74441

Contact: hulbert@kempstone.com

T:

F: