

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



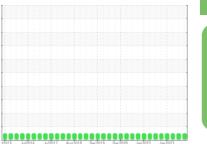
DIAGNOSIS

KEMP QUARRIES / PRYOR STONE [66569] **OHT085** Component

Diesel Engine

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

SAMPLE INFORMATION method





Recommendation
Resample at the next service interval to monitor. (
Customer Sample Comment: Pm3 performed. All
oil samples taken. All oils, and all filters changed.)

Wear

All 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.

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Sample Number		Client Info		PCA0084308	PCA0084551	PCA0083980
Sample Date		Client Info		03 Nov 2023	24 Jul 2023	03 May 2023
Machine Age	hrs	Client Info		14433	13895	13443
Oil Age	hrs	Client Info		538	13895	539
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method	20	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	16	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	61
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	982	1009	974
Calcium	ppm	ASTM D5185m	1070	1074	1137	1182
Phosphorus	ppm	ASTM D5185m	1150	1066	1102	1053
Zinc	ppm	ASTM D5185m	1270	1303	1337	1267
Sulfur	ppm	ASTM D5185m	2060	3150	3936	3808
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	3
Sodium	ppm	ASTM D5185m		2	1	5
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6
Soot % Nitration	% Abs/cm		>3 >20	0.6 7.2	0.6 7.0	0.6 7.3
		*ASTM D7844	>20			
Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20	7.2	7.0	7.3
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30 limit/base	7.2 19.7	7.0 19.0	7.3 19.8



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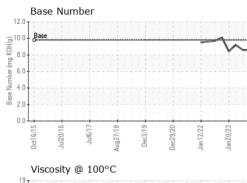
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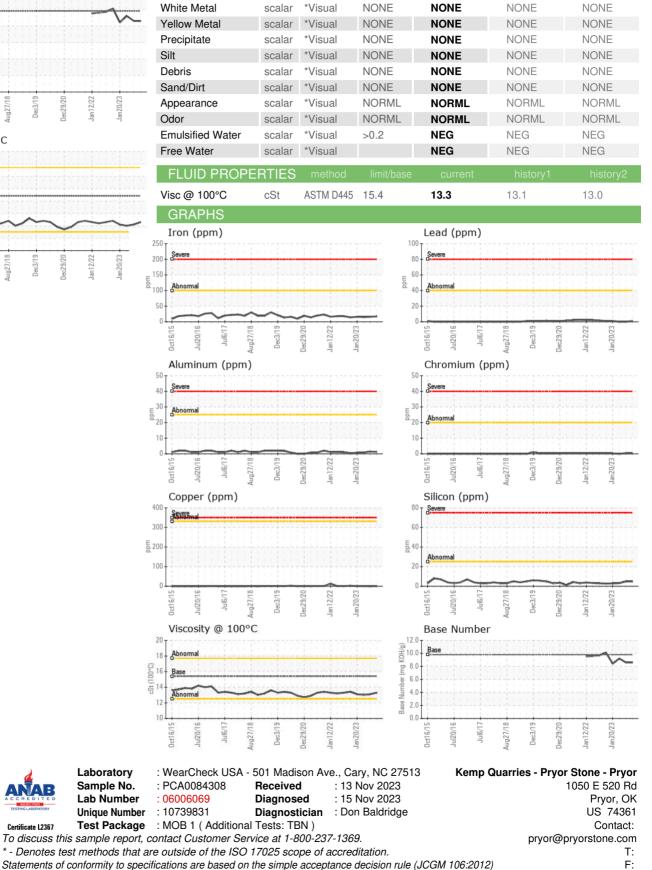
Abnorma

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VISUAL



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Certificate L2367