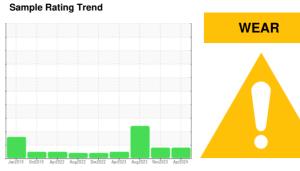


OIL ANALYSIS REPORT

KEMP QUARRIES / RIVER VALLEY ARKOMA **OHT102**

Front Differential

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)



DIAGNOSIS

Recommendation

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

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

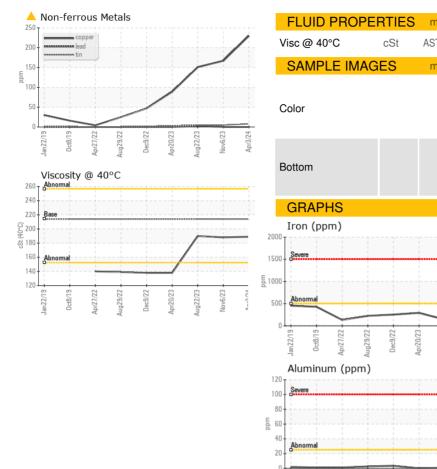
Fluid Condition

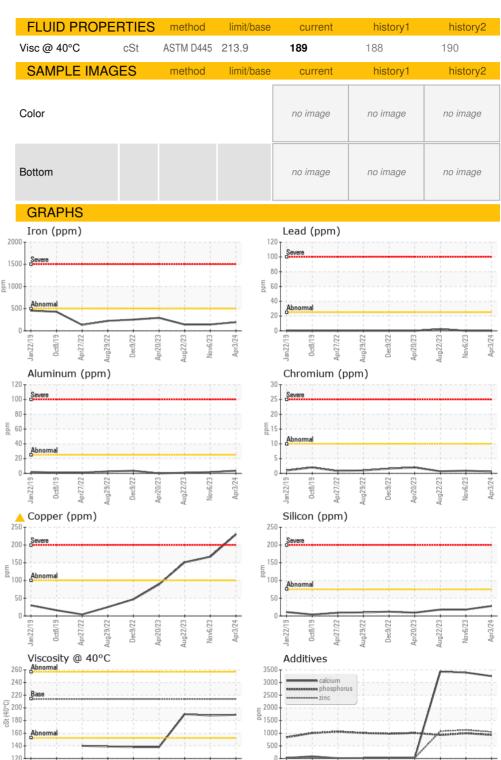
The condition of the oil is acceptable for the time in service.

GAL)		Jan2019 Oc	t2019 Apr2022 Aug2022	Dec2022 Apr2023 Aug2023 Nov20	23 Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0034670	PCA0084416	PCA0083936
Sample Date		Client Info		03 Apr 2024	06 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		29902	29340	29115
Oil Age	hrs	Client Info		28531	28531	29115
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	193	143	142
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	4	2	<1
Lead	ppm	ASTM D5185m	>25	0	0	2
Copper	ppm	ASTM D5185m	>100	4 230	<u>▲</u> 167	<u></u> 151
Tin	ppm	ASTM D5185m	>10	8	5	5
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	54	68	89
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	2	2
Manganese	ppm	ASTM D5185m	0	2	1	1
Magnesium	ppm	ASTM D5185m	9	11	11	4
Calcium	ppm	ASTM D5185m	3114	3253	3393	3430
Phosphorus	ppm	ASTM D5185m	1099	931	998	928
Zinc	ppm	ASTM D5185m	1245	1051	1127	1076
Sulfur	ppm	ASTM D5185m	7086	5359	4788	6645
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	28	18	18
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	3	2
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	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
22:05\ Dov: 1	Scalal	visual		NLG	INLG	Submitted B



OIL ANALYSIS REPORT









Certificate 12367

Sample No.

Test Package : MOB 1

: PCA0034670 Lab Number : 06142544 Unique Number : 10967352

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

Tested : 09 Apr 2024 Diagnosed

: 11 Apr 2024 - Don Baldridge

12971 HWY 9a Shawnee, OK

Kemp Quarries - River Valley - Arkoma

US 74804 Contact: arkomashop@kempquarries.net

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)

Report Id: KEMSHA [WUSCAR] 06142544 (Generated: 04/11/2024 14:23:05) Rev: 1

Submitted By:

T:

F: