

OIL ANALYSIS REPORT

Sample Rating Trend



Area KEMP QUARRIES / BCS - STILLWELL Machine Id WL068 Component

Rear Right Final Drive

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

SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history
Sample Number		Client Info		PCA0086435	PCA0086123	PCA006217
Sample Date		Client Info		05 Jul 2023	08 Apr 2023	24 Jun 2022
Machine Age	hrs	Client Info		23571	0	22557
Oil Age	hrs	Client Info		23571	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Chango
Sample Status				SEVERE	ABNORMAL	ABNORMA
WEAR META	LS	method	limit/base	current	history 1	history
Iron	ppm	ASTM D5185m	>800	93263	6 78	670
Chromium	ppm	ASTM D5185m	>10	7	1	1
Nickel	ppm	ASTM D5185m	>5	1	0	0
Titanium	ppm	ASTM D5185m	>15	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	13	3	3
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	40	16	10
Tin	ppm	ASTM D5185m	>8	<1	0	0
Antimony	ppm	ASTM D5185m	>50			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history
Boron	ppm	ASTM D5185m		21	12	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	3	3
Manganese	ppm	ASTM D5185m	0	22	5	5
Magnesium	ppm	ASTM D5185m	9	59	41	41
Calcium	ppm	ASTM D5185m	3114	2664	2233	2511
Phosphorus	ppm	ASTM D5185m	1099	946	998	980
Zinc	ppm	ASTM D5185m	1245	950	1085	1135
Sulfur	ppm	ASTM D5185m	7086	8666	8067	6728
CONTAMINA	NTS	method	limit/base	current	history 1	history
Silicon	ppm	ASTM D5185m	>400	42	11	13
Sodium	ppm	ASTM D5185m		3	1	0
Potassium	ppm	ASTM D5185m	>20	2	0	1
VISUAL		method	limit/base	current	history 1	history
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM-3 sampled fluid)

🛡 Wear

Gear wear is indicated.

Contamination

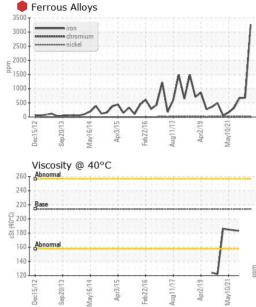
There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



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Certificate L2367