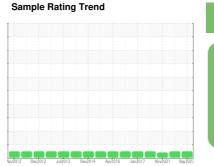


OIL ANALYSIS REPORT

KEMP QUARRIES / MUSKOGEE SAND [64005] WL001 Component

Transmission Fluid

PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)





NORMAL

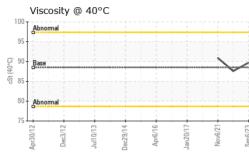
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0037712	PCA0070486	PCA0034542
Resample at the next service interval to monitor. (Sample Date		Client Info		06 Sep 2023	08 Jul 2022	06 Nov 2021
Customer Sample Comment: PM-1 changed filters)	Machine Age	hrs	Client Info		3441	2975	2835
Wear	Oil Age	hrs	Client Info		3441	613	473
All component wear rates are normal.	Oil Changed		Client Info		N/A	Changed	Not Changd
Contamination There is no indication of any contamination in the oil.	Sample Status				NORMAL	NORMAL	ABNORMAL
	WEAR METAL	.S	method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>200	14	10	11
The condition of the oil is acceptable for the time in service.	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>50	3	3	2
	Lead	ppm	ASTM D5185m	>50	0	<1	<1
	Copper	ppm	ASTM D5185m	>200	40	2	2
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	15	64	56
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	8	32	35
	Manganese	ppm	ASTM D5185m	9	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1	133	477	490
	Calcium	ppm	ASTM D5185m	3131	2552	1821	2055
	Phosphorus	ppm	ASTM D5185m	1194	959	887	951
	Zinc	ppm	ASTM D5185m	1281	1168	1025	1198
	Sulfur	ppm	ASTM D5185m	3811	4840	3724	3421
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	19	8	7
	Sodium	ppm	ASTM D5185m		3	4	2
	Potassium	ppm	ASTM D5185m	>20	0	0	0
	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	A 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	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

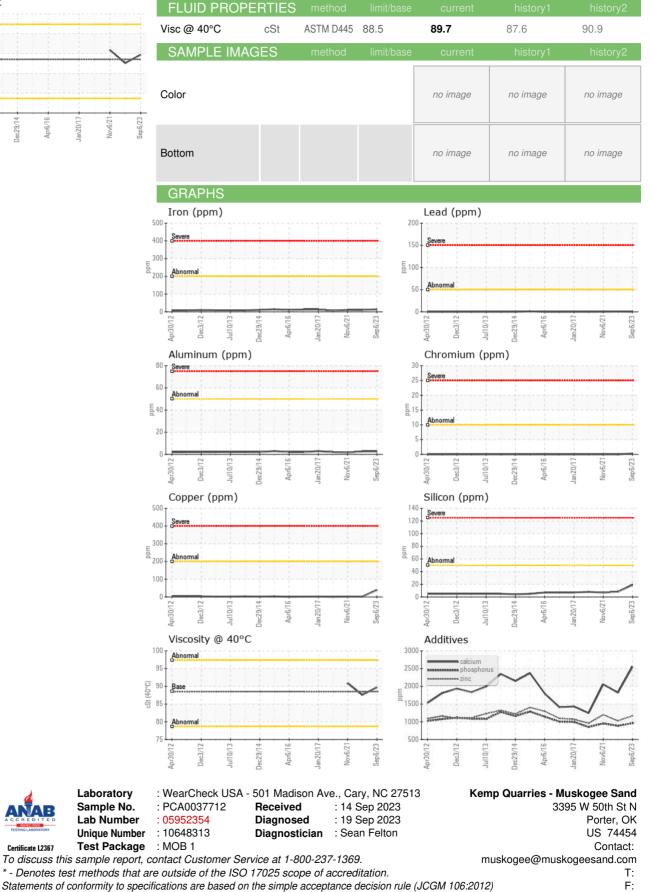
Contamination

Fluid Condition



OIL ANALYSIS REPORT





Certificate L2367