

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

THOMPSON 6 IN VAC PUMP 336

Diesel Engine

PETRO CANADA 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

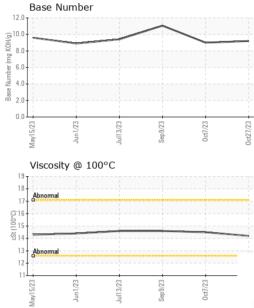
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		majcoco	0012020 0012020			
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868151	WC0822246	WC0517479
Sample Date		Client Info		27 Oct 2023	07 Oct 2023	09 Sep 2023
Machine Age	hrs	Client Info		27366	26886	26344
Oil Age	hrs	Client Info		480	542	356
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	8	18
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	2	6
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		0	1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	210	0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES	pp		limit/base			
		method	iinii/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	7	5
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		62	63	66
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		954	952	1084
Calcium	ppm	ASTM D5185m		1070	1099	1195
Phosphorus						
	ppm	ASTM D5185m		1015	942	1049
Zinc	ppm	ASTM D5185m		1015 1265	942 1180	1049 1345
Zinc Sulfur				1015	942	1049
Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	1015 1265	942 1180	1049 1345
Sulfur	ppm	ASTM D5185m ASTM D5185m		1015 1265 2900	942 1180 2720	1049 1345 3248
Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method		1015 1265 2900 current	942 1180 2720 history1	1049 1345 3248 history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	>25	1015 1265 2900 current 3	942 1180 2720 history1 3	1049 1345 3248 history2 5
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>25	1015 1265 2900 current 3 0	942 1180 2720 history1 3 2	1049 1345 3248 history2 5 2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	1015 1265 2900 current 3 0 0	942 1180 2720 history1 3 2 <1	1049 1345 3248 history2 5 2 2 2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base	1015 1265 2900 current 3 0 0 0 current	942 1180 2720 history1 3 2 <1 <1 history1 0.1	1049 1345 3248 history2 5 2 2 2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base >3 >20	1015 1265 2900 current 3 0 0 0 current 0.1	942 1180 2720 history1 3 2 <1 kistory1	1049 1345 3248 history2 5 2 2 2 history2 0.1
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >3 >20	1015 1265 2900 current 3 0 0 0 current 0.1 7.3	942 1180 2720 history1 3 2 <1 <1 history1 0.1 6.6	1049 1345 3248 history2 5 2 2 2 history2 0.1 6.6
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7824	>25 >20 limit/base >3 >20 >30 limit/base	1015 1265 2900 current 3 0 0 0 current 0.1 7.3 18.3	942 1180 2720 history1 3 2 <1 (1) history1 0.1 6.6 17.5	1049 1345 3248 history2 5 2 2 2 history2 0.1 6.6 17.9



OIL ANALYSIS REPORT



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IONE		NONE	NONE		NONE	*Visual	scalar	etal	White Me	<hr/>	\frown	
IONE		NONE	NONE		NONE	*Visual	scalar	letal	Yellow M			
IONE		NONE	NONE		NONE	*Visual	scalar	te	Precipitat			
IONE		NONE	NONE		NONE	*Visual	scalar		Silt			
IONE		NONE	NONE		NONE	*Visual	scalar		Debris			
IONE		NONE	NONE		NONE	*Visual	scalar	t	Sand/Dirt			
IORML		NORML	NORML		NORML	*Visual	scalar	nce	Appearar	0ct7/23 0ct27/23	Sep 9/23	c7/c IInc
IORML	L	NORML	ORML		NORM	*Visual	scalar		Odor	0 0	õ	
IEG		NEG	NEG		>0.2	*Visual	scalar		Emulsifie			
IEG		NEG	NEG			*Visual	scalar	ter	Free Wat		1	
history2	ry1	history1	current	oase	limit/ba	method	IES	PROPERT	FLUID			
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0ct7/23	Sep	Sep	Jun	May15/23	0ct27/23	Oct	Sep	Jult	May15/23			
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1				60 -					300			
				튭 40 -					200			
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				La 6.0					16 -			
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1				82.0 0.0					12			
0ct7/23 -	Sep9/23 -	Jul13/23 - Sep9/23 -	Jun1/23 -		0ct27/23 -	0ct7/23 -	Sep 9/23 -	Jun 1/23 - Jul 13/23 -				
DC 0	Sep	Sep	ηun	May15/23	0ct2	Oct	Sep	Jun	May15/23			
TH AVE I EACH, SO US 2957 htact: NEI	706 : IYRTLE C	MYF		3	Nov 2023 Nov 2023 s Davis	l : 02 ed : 03 ician : Wes N)	Received Diagnose Diagnost Tests: TB	2 C 72 C Additional T	: WC0868 : 0599721 : 1072557 : MOB 1 (Laboratory Sample No. Lab Number Unique Number Test Package		
	ENTON 8 706 3 IYRTLE	C.L. BENT MYF		27513 23 23	ry, NC 2 Nov 2023 Nov 2023 s Davis 9. litation.	oon Ave., Ca I : 02 I ed : 03 I ician : We: N) 00-237-1369 pe of accred	01 Madis Received Diagnose Diagnost Fests: TB ce at 1-8 7025 sco	eck USA - 50 151 F 2 C 2 C Additional T tomer Servic of the ISO 17	: WearChe : WC0868 : 0599721 : 1072557 : MOB 1 (ontact Cus e outside o	Sample No. Lab Number Unique Number	cuss this notes tesi	* - De

Contact/Location: NEIL ? - CLBMYR

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