

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

 \mathbf{X}

Ican Machine Id VOLVO VNL 4469 Component

Diesel Engine

Fluid PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🛡 Wear

Nickel ppm levels are severe. Exhaust valve 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.

AL)				Aug2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831172		
ample Date		Client Info		17 Aug 2023		
lachine Age	kms	Client Info		753954		
il Age	kms	Client Info		0		
il Changed		Client Info		Changed		
ample Status				SEVERE		
CONTAMINATION	N	method	limit/base	current	history1	history2
uel		WC Method	>6.0	<1.0		
ilycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
on	ppm	ASTM D5185(m)	>100	83		
hromium	ppm	ASTM D5185(m)	>20	1		
ckel	ppm	ASTM D5185(m)	>2	6		
tanium	ppm	ASTM D5185(m)		0		
ilver	ppm	ASTM D5185(m)	>2	<1		
luminum	ppm	ASTM D5185(m)	>25	5		
ead	ppm	ASTM D5185(m)	>40	1		
opper	ppm	ASTM D5185(m)	>330	9		
in	ppm	ASTM D5185(m)	>15	<1		
ntimony	ppm	ASTM D5185(m)		0		
anadium	ppm	ASTM D5185(m)		0		
eryllium	ppm	ASTM D5185(m)		0		
admium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
oron	ppm	ASTM D5185(m)	1	3		
arium	ppm	ASTM D5185(m)	1	<1		
lolybdenum	ppm	ASTM D5185(m)	1	57		
langanese	ppm	ASTM D5185(m)	1	1		
lagnesium	ppm	ASTM D5185(m)	10	876		
alcium	ppm	ASTM D5185(m)	2942	1321		
hosphorus	ppm	ASTM D5185(m)	1102	1055		
inc	ppm	ASTM D5185(m)	1351	1204		
		ASTM D5185(m)		2256		
ulfur						
	ppm ppm	ASTM D5185(m)	0000	<1		
thium	ppm		limit/base		 history1	 history2
thium CONTAMINANTS	ppm	ASTM D5185(m) method	limit/base	<1 current		
ithium CONTAMINANTS ilicon	ppm ppm	ASTM D5185(m) method ASTM D5185(m)		<1 current 7	history1	history2
thium CONTAMINANTS ilicon odium	ppm	ASTM D5185(m) method	limit/base	<1 current	history1	history2
ithium CONTAMINANTS ilicon odium otassium	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	<1 current 7 5	history1 	history2
thium CONTAMINANTS ilicon odium otassium INFRA-RED	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >25 >20	<1 current 7 5 2	history1 	history2
thium CONTAMINANTS olium otassium INFRA-RED oot %	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7844*	limit/base >25 >20 limit/base >3	<1 current 7 5 2 current 1	history1 history1	history2
ulfur ithium CONTAMINANTS ilicon odium otassium INFRA-RED oot % litration ulfation	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	limit/base >25 >20 limit/base >3	<1 current 7 5 2 current	history1 history1 	history2
ithium CONTAMINANTS ilicon odium otassium INFRA-RED oot % itration	ppm ppm ppm ppm % Abs/cm Abs/1mm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7844* ASTM D7624*	limit/base >25 >20 limit/base >3 >20	<1 <u>current</u> 7 5 2 <u>current</u> 1 11.8	history1 history1 	history2 history2
ithium CONTAMINANTS ilicon odium otassium INFRA-RED oot % itration ulfation	ppm ppm ppm ppm % Abs/cm Abs/1mm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7844* ASTM D7624* ASTM D7415*	limit/base >25 >20 limit/base >3 >20 >30	<1 Current 7 5 2 Current 1 11.8 27.4	history1 history1 	history2 history2



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