

OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/ba







Machine Id ISUZU LF2040 Component

Diesel Engine Fluid PETRO CANADA 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il n`y a aucun indice de contamination dans l'huile.

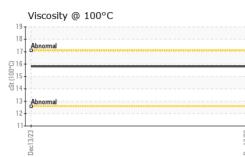
Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0815498		
Sample Date		Client Info		13 Dec 2023		
Machine Age	hrs	Client Info		11791		
Oil Age	hrs	Client Info		453		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	24		
Chromium	ppm	ASTM D5185(m)	>20	3		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	7		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		69		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1152		
Calcium	ppm	ASTM D5185(m)		1217		
Phosphorus	ppm	ASTM D5185(m)		1101		
Zinc	ppm	ASTM D5185(m)		1353		
Sulfur	ppm	ASTM D5185(m)		2638		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	7.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7		



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°C	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	ASTM D7414*	>25	17.7		
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
Dec13/23 +	Silt	scalar	Visual*	NONE	VLITE		
Dec1	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor Emulsified Water	scalar scalar	Visual* Visual*	NORML >0.2	NORML NEG		
	Free Water	scalar	Visual*	>0.2	NEG		
	FLUID PROPERT	_	method	limit/base		history1	history2
	Visc @ 100°C			IIIIII/Dase	current		
	_	cSt	ASTM D7279(m)		15.8		
	GRAPHS Iron (ppm)				Lead (ppm)		
	250			100	Severe		
	200 - Severe			80 = 60	Q		
	150			톱 ⁶⁰ 40	Abnormal		
	50-						
	0			0	123		/23
	Dec13/23			Dec13/23	Dec13/23		Dec13/23
	 Aluminum (ppm)				 Chromium (p	opm)	
	50 40 Severe			50	Severe		
	10			40 30	4		
	and a second sec			E 30	Abnormal		
	10-			10			
	3/33			0	13/23		3/23 -
	Dec13/23			Dec13/23	Dec1		Dec13/23
	Copper (ppm)				Silicon (ppm))	
	400 Severe			80	Severe		
E	300			60 5 40			
	100-			분 ⁴⁰ 20	Abnormal		
	0			0			
	Dec13/23			Dec13/23	Dec13/23		Dec13/23
				Dec			Dec
	Viscosity @ 100°C	:		6.0	Soot %		
	18 - Abnormal				Severe		
	0 16 10 16 14 Abnormal			2.0	Abnormal		
	Abnormal			²⁵ 2.0			
	10			0.0			
	Dec13/23			Dec13/23	Dec13/23		Dec13/23
Laboratory Sample No. Lab Number Unique Number Test Package To discuss this sample report, of Test denoted (*) outside scorport	: WearCheck - C8-11 : WC0815498 : 02603385 : 5696470 : MOB 1 (Additional contact Customer Servi of accreditation, (m) m	Received Diagnose Diagnost Tests: Vis ice at 1-8 nethod mo	l : 15 ed : 15 ician : We sual) 00-268-213 ; odified, (e) te	lington, ON L' Dec 2023 Dec 2023 s Davis 1. ested at exterr	7L 5H9 nal lab.	bcloutier@ T:	Loue Froid Bellerose Ouest Laval, QC CA H7L 6A1 Benoit Cloutier Doue-froid.com (514)527-9009
ISO 17025:2017 Accredited Laboratory To discuss this sample report, of	: 02603385 : 5696470 : MOB 1 (Additional contact Customer Servi of accreditation, (m) m	Diagnose Diagnost Tests: Vis ice at 1-8 pethod mo	ed : 15 ician : We sual) 00-268-213 ; odified, (e) te	Dec 2023 s Davis 1. sted at exterr		Contact: bcloutier@ T:	Laval, CA H7L (Benoit Clou Ploue-froid.c

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Contact/Location: Benoit Cloutier - LOU195LAV