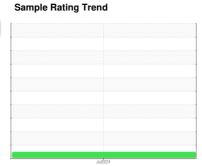


OIL ANALYSIS REPORT

Area Drills 122002

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the

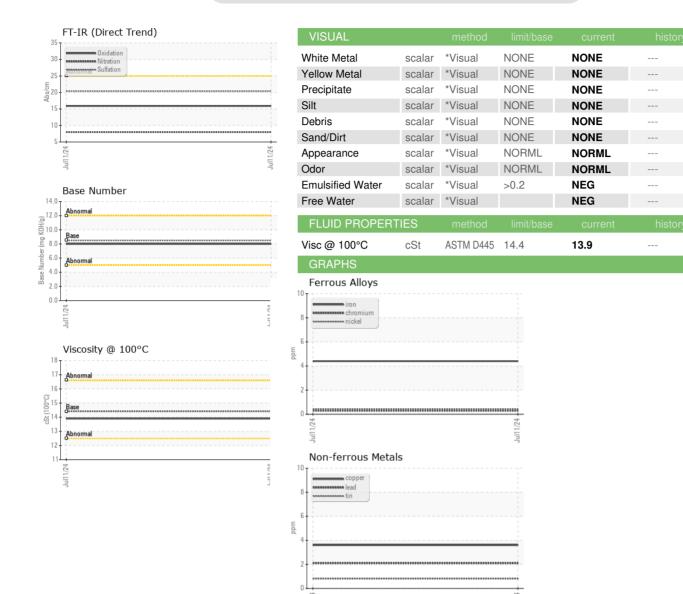
Fluid Condition

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

				Jul2024		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		KOH0000056		
Sample Date		Client Info		11 Jul 2024		
Machine Age	hrs	Client Info		582		
Oil Age	hrs	Client Info		582		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
						Historyz
Iron	ppm	ASTM D5185m	>90	4		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium Silver	ppm	ASTM D5185m	>2 >2	84		
Aluminum	ppm	ASTM D5185m		0 3		
	ppm	ASTM D5185m	>20 >40	2		
Lead	ppm	ASTM D5185m ASTM D5185m	>330	4		
Copper Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m	>10	1		
Cadmium	ppm	ASTM D5185m		<1		
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	107		
Barium	ppm	ASTM D5185m	10	<1		
Molybdenum	ppm	ASTM D5185m	100	8		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	429		
Calcium	ppm	ASTM D5185m	3000	1766		
Phosphorus	ppm	ASTM D5185m	1150	998		
Zinc	ppm	ASTM D5185m	1350	1203		
Sulfur	ppm	ASTM D5185m	4250	3790		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m	>158	0		
Potassium	ppm	ASTM D5185m	>20	9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06238965

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: KOH0000056 Unique Number : 11127799

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Viscosity @ 100°C

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

KOMATSU HYDRAULICS

401 E GREENFIELD AVENUE MILWAUKEE, WI US 53204-2941

Base Number

12.0 (B/H₀)

(mg k 6.0 Base 2.0 0.0

: 18 Jul 2024 - Wes Davis

Contact: JOHN GATES john.gates@global.komatsu

T: (414)670-5932