

OIL ANALYSIS REPORT

K5 CONSTRUCTION CORPORATION - HODGKINS IL

2028

Diesel Engine

LEAHY WOLF PREMIUM 15W40 (10 hrs)

Sample Rating Trend Juni2016 Aug/2017 Aug/2018 Occ2018 Mag/2020 Feb/2022 Mag/2020 Apr/2024



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.

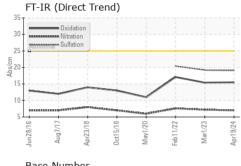
		3002016	augzoti Apizoto ocizo	110 May2020 PR02022 Mar2023	Apizo24	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122088	LW0006348	LW0004313
Sample Date		Client Info		19 Apr 2024	01 Mar 2023	11 Feb 2022
Machine Age	hrs	Client Info		5847	5847	5818
Oil Age	hrs	Client Info		5847	29	245
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	18	18
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	2
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	6	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	59	60
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1078	873	949
Calcium	ppm	ASTM D5185m		1170	1156	1077
Phosphorus	ppm	ASTM D5185m		1099	1010	1042
Zinc	ppm	ASTM D5185m		1350	1223	1147
Sulfur	ppm	ASTM D5185m		3823	2847	2763
Lithium	ppm	ASTM D5185m				
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.2	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.2	20.4

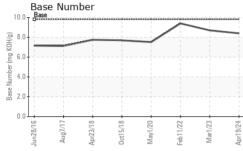


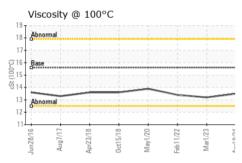
OIL ANALYSIS REPORT

cSt

ASTM D445 15.6







FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.4	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.7	9.4
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	NONE
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

13.5

13.2

13.4

GH	KAPE	IS													
Iro	n (ppr	n)						Lea	d (pp	m)					
Seve	ere							100 Seve	re						
0 - Abn	ormal							E 60 - Abno	nmal						
10								20							
	7		-	-	2+		-	0 🗀	7				2		
Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20	Feb11/22	Mar1/23	Apr19/24	Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20	Feb11/22	Mar1/23	0
		⊲ n (ppn		_	Œ	_	A			⊸ n (ppr		_	Œ	_	<
O T Seve		ii (ppii						50 T Seve		ii (ppi					
1								10 7							
Abn	ormal						-	E 20 Abno	ormal						
0								10							
Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20 -	Feb11/22	Mar1/23	Apr19/24	Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20	Feb11/22	Mar1/23	000
Jun	Au	Apri	Oct	May	물	Ma	Apr				Oct	Ma	물	Ma	<
	pper (ppm)						Silio 80 ⊤ Seve	con (p	pm)					
Seve	ormal							60							
0								E 40 Abno	nmal .						
1								20							
0	- 11/	- 8	- 8	/20	727	- 62/	124	0191	-11/	18	18	/20	727	62/	ě
Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20	Feb 11/22	Mar1/23	Apr19/24	Jun28/16	Aug7/17.	Apr23/18	Oct15/18	May1/20	Feb11/22	Mar1/23	0
	cosity	@ 100	0°C					Bas	e Nur	nber					
Abn	ormal			;				(B10.0 Base	*****						
6 - Base	e							E 6.0							
Abm	ormal -							Base Number (0)HOX BW 4.0							
بلل								0.0							
91/	717	.8	8	/20	/22	/23	/24	1/16	/117	9	8	/20	/22	/23	5





Sample No.

: PCA0122088 Lab Number : 06160079 Unique Number : 10995502

Visc @ 100°C

CDADUC

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024

Tested : 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

K5 CONSTRUCTION CORPORATION 6301 S EAST AVENUE HODGKINS, IL

US 60525 Contact: FRANCISCO MUNOZ franciscom@k-five.net

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Report Id: K5CWES [WUSCAR] 06160079 (Generated: 04/25/2024 19:33:36) Rev: 1

Submitted By: NOELLE TERRAULT

T: F: